VDZ+A

LANDSCAPE ARCHITECTURE | CIVIL ENGINEERING | URBAN FORESTRY

TOWN CENTRE PARK TENNIS COURT

Tree Assessment/Arborist Report

Site Address:
1299 Pinetree Way,
Coquitlam, B.C. V3B 7S4

Submission Date: December 19, 2025
VDZ+A Project #: PR2025-06
Client/Municipal Project #:
CoC Business License #:

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Revision #	Revision Date	Revision Author	Comments
0	Nov. 21, 2025	A.L. / D.G.R.	Original Report
1	Dec. 19, 2025	A.L. / D.G.R.	Issued for Tree & Brush Clearing

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ARBORIST REPORT

ASSIGNMENT

Van der Zalm and Associates (VDZ+A) have been retained by City of Coquitlam, to prepare an arborist report to assess trees located at 1299 Pinetree Way, Coquitlam, BC. VDZ+A performed a site review and visual assessment of trees on site based on the documents provided by the client.

This report will provide recommendations for the retention or removal of trees on this site based on existing site conditions and proposed site use. Mitigation of development impact on the trees has been considered as part of the tree assessment process.

LIMITS OF THE ASSIGNMENT

VDZ+A's observations are limited to 2 of site visits on October 1 & 3, 2025. VDZ+A located the trees using a legal survey plan completed by Bennett Land Surveying Ltd. dated April 14, 2025. On site measurements and navigation was used to locate trees that were not included in the survey.

Information from site was collected using visual observations. No lab analysis was performed on tissue or soil samples.

Recommendation are provided based on an initial assessment, review of site conditions, and proposed site use. Final recommendations are subject to review of finalized working drawings and additional assessments as necessary.

METHODOLOGY

VDZ+A Arborists, D. Glyn Romaine and Aaron Lee, completed the initial site review using visual observation and mallet sounding to determine tree health, vigor, and presence of decay. A logger's tape, diameter tape, compass, clinometer, and were used for measurements of tree characteristics (height, DBH, dripline).

PURPOSE AND USE OF REPORT

Trees are an important part of the urban environment. They provide many benefits including wildlife habitat, efficient water management, and a healthier microclimate.

This report provides an assessment of the tree resources present to help guide decision making, design, and construction processes and to avoid or reduce potential development impacts to trees. It quantifies potential tree removals and provides tree replacement recommendations.

The recommendations and requirements outlined herein are guided by *City of Coquitlam Tree Management Bylaw No. 4091, 2010, City of Coquitlam Standards for Tree Cutting Permit Applicants, and the Zoning Bylaw No. 300.* These City Bylaws do not apply to tree removals within Town Centre Park, but they can inform tree replacement strategies.

OVERVIEW

Town Centre Park is located along the west side of Pipeline Road. It is bordered by Coquitlam Fire Hall No. 1 and Pinetree Secondary School to the west, single family residential to the east, and low- and high-rise buildings to the north and south. The development area includes existing tennis courts, the City of Coquitlam work yard, and a recycling depot within the limits of work. The current site use is a sports and recreation area.

FIG. 1 - **AERIAL SITE VIEW OF PROPERTY (QTHEMAP, 2025)**

PROPOSED SITE DEVELOPMENT

The proposed site use is to demolish the existing works yard and recycling depot, and to remove part of the existing natural stand in order to construct additional tennis courts and a parking lot.

ENVIRONMENTAL DESCRIPTION

Vegetation

Canopy cover on site is moderate (50-60%). Vegetation on site primarily consists of black cottonwood (*Populus trichocarpa*), red alder (*Alnus rubra*), and western redcedar (*Thuja plicata*) with several non-native ornamental trees. Trees on site were in generally fair to good condition.

Invasive Plants

Japanese Knotweed, a provincially regulated noxious weed, was observed on site during the assessment. Refer to the Knotweed Management Plan prepared by Diamond Head Consulting Ltd. for details on treatment and mitigation measures. Invasive species including English ivy, English holly, English laurel, Himalayan blackberry, and Scotch broom were also present on site.

Riparian Areas/Watercourses

No watercourse was found on site.

Soils and Drainage

Approximately 50% of the site contains grass and permeable surfaces. No soil analysis was performed on site.

Birds and Wildlife

There is no evidence of raptors nests, osprey nests or heron colonies on the site. Removal of trees however between March 1 – August 31 (date subject to change depending on seasonal nesting behavior and therefore must be confirmed with the City) will require a bird nesting survey. This is as prescribed by the federal Migratory Birds Convention Act (MBCA), 1994 and Section 34 of the BC Wildlife Act. It is the responsibility of the owner/developer to ensure they are in compliance with the city's regulations governing nesting birds on sites where development is occurring.

TREE RISK MANAGEMENT PLAN

Trees provide numerous benefits to those living and working in the urban environment. These benefits increase as the age and size of the trees increase. However, as a tree gets older and larger, it is also more likely to shed branches or develop decay or other conditions that can predispose it to failure. In addition, impacts from construction may further affect a tree's health and structural stability, including root damage, soil disturbance, mechanical injury, and new exposure. When assessing and managing trees, we should strive to balance the risks a tree may pose with the benefits it provides to individuals and communities.

During our assessment, all retained trees were reviewed under a Level 1 – Limited Visual Assessment. VDZ+A arborists performed a visual assessment to determine tree health, vigor, and the presence of decay. The arborists also looked for obvious defects such as dead trees, large cavity openings, large dead or broken branches, fungal fruiting bodies, significant cracks, and severe leans. Level 2 – Basic Assessments were conducted on trees with obvious defects and trees located along the proposed cut line within the existing stand. Mallet sounding was performed on trees with defects of concern. Recommendations are provided based on the initial assessment, review of site conditions, existing trees conditions, new exposure following removals, and the proposed site use. Tree removals are proposed for trees that conflict with the proposed development, pose a hazard, or are expected to become structurally unstable following tree removal. Additional removals are recommended for trees that may be impacted by construction activities or by new exposure along the new stand edge.

Tree #103, is a dead cottonwood with high wildlife value, is recommended to be wildlifed at 6 m with a jagged top. Coronet cutting is recommended to mimic the appearance of a natural fracture. Please refer to *Appendix E – Examples of Coronet Cuts on Wildlife Trees* for photos reference.

Following initial tree felling, VDZ+A arborists must reassess trees along the new stand edge prior to demobilization of the tree crew. VDZ+A arborists will identify any trees with defects that were not previously visible, or trees that are not structurally stable enough to remain at the new stand edge. Such trees should be removed or modified immediately for safety reasons.

Throughout the construction period, regular monitoring by a certified arborist is recommended to document changes in tree condition and proactively identify any high-risk trees within and proximity to the development area.

A post-construction assessment should also be conducted by a certified arborist. Tree health and structure should be thoroughly re-evaluated to determine whether any changes occurred during construction. If changes are detected, appropriate remedial treatments should be recommended and implemented, such as pruning or tree removal. The assessment should also outline a long-term maintenance program that includes monitoring, irrigation, and a maintenance schedule to ensure the trees are managed effectively into the future.

SUMMARY

All the Trees identified on the Tree Plans and within the Tree Inventory Table have been given their Retention/Removal recommendation on a preliminary basis. Final recommendations will be based upon design/construction and grading details.

Long-term tree preservation success is dependent on minimizing the impact caused during pre-construction clearing operations, construction and post construction activities. Best efforts must be made to ensure the Tree Protection Zone remains undisturbed. Ongoing monitoring of retained trees through the development process and implementation of mitigating works (watering, mulching, etc.) is essential for success.

- A total of 449 onsite trees were assessed. Since Town Centre Park is located on municipal land, all trees are protected regardless of their size. However, Tree #40 is an English holly, which is an invasive species, and is therefore excluded from the tree summary table and the replacement tree recommendation calculation.
- A total of 172 onsite trees are recommended for retention. Of these, two dead trees are recommended for retention because there are no targets within their striking zones. Tree #103, a dead black cottonwood, is also recommended to be wildlifed and is shown as retained in the summary table.
- A total of 276 onsite trees are recommended for removal due to conflicts with the proposed development, excluding tree #40. Of these, 18 trees are dead and 7 trees are in poor condition.
- Tree #103, is a dead cottonwood with high wildlife value, is recommended to be wildlifed at 6 m with a jagged top.
- Tree #28 is a paper birch with a dead tree leaning into crown. Removal of the dead tree from the crown is recommended.
- Japanese knotweed, a provincially regulated noxious weed, was found onsite during the inspection. A Knotweed Management Plan was prepared by Diamond Head Consulting Ltd. Refer to the Plan for instructions on land clearing and tree removal in that area.
- The replacement-tree requirement for private property in the City of Coquitlam is calculated based on lot size. These requirements do not apply to public land, and VDZ+A recommends a 1:1 replacement ratio for every tree recommended for removal, including dead trees, to compensate for the loss of existing canopy. Therefore, we recommend 276 replacement trees to be planted on site or elsewhere. However, the final replacement-tree requirement is at the discretion of the City of Coquitlam.

TREE INVENTORY ASSESSMENT

Definition of tree conditions include:
Excellent = Well-balanced structure, full canopy, healthy foliage, no signs of disease/pests/structural issues.
Good = Healthy but have minor issue that do not significantly impact overall health or structure *(e.g. some deadwood, minor pest damage).*
Fair = Signs of stress/disease/structural concerns that are affecting the overall health or structure *(e.g. dieback, limited foliage, evidence of pest/disease, co-dominant or weak branch attachments).*
Poor = Significant health issues or structural defects that may compromise stability and structure *(e.g. extensive dieback, sparse canopy, large dead limbs, trunk decay).*

Table 1 : Tree Inventory Data

For trees that are in the defined footprint of development in scope of work, only species and diameter were recorded.
All the trees identified on the Tree Management Plan and within the Tree Inventory Data Table have been given their Retention/Removal recommendations on a preliminary basis. Final recommendations will be based upon design/construction and grading details.
TPZ = Tree Protection Zone - *see Tree Protection Barrier specification (Refer to Appendix B)* **LCR** = Live Crown Ratio **DBH** = Diameter at Breast Height (1.4m) **NT** = No tag **HP** = Hand plotted

Tag #	Common name *Botanical name*	DBH (cm)	Dripline (m)	LCR (%)	Height (m)	Condition	Comments	Retain / Remove	TPZ (m)
1	Douglas fir *Pseudotsuga menziesii*	39	5	80	15	Good	Large exposed root.	Retain	2.3
2	Black cottonwood *Populus trichocarpa*	37	8	50	25	Good		Retain	2.2
5	Red alder *Alnus rubra*	15	4	70	9	Good		Retain	0.9
6	Black cottonwood *Populus trichocarpa*	66	9	60	16	Fair	Previous tear out at 9 m. Bows west. Ivy up trunk.	Retain	4.0
7	Red alder *Alnus rubra*	21	4.5	70	12	Good	Tag missing.	Retain	1.3
8	Norway maple *Acer platanoides*	31	6	60	12	Good	Damaged surface roots.	Retain	1.9
9	Bitter cherry *Prunus emarginata*	14					Level 1 assessment. Within the proposed tennis court.	Remove	0.8
10	Black cottonwood *Populus trichocarpa*	30	5	60	20	Fair	Dead top.	Remove	1.8

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11	Black cottonwood *Populus trichocarpa*	62	8.5	70	25	Good	Codominant at 2 m. Reaches North. Growing with 97.	Remove	3.7
12	Linden *Tilia sp.*	13	5	80	10	Good		Retain	0.8
14	Black cottonwood *Populus trichocarpa*	33	5.5	60	24	Good	Small stem cavity at base.	Retain	2.0
15	Black cottonwood *Populus trichocarpa*	25			16	Dead		Retain	1.5
16-HP	Bitter cherry *Prunus emarginata*	49 (26, 23)	3	80	16	Good	2 stems from base.	Retain	2.9
17	Black cottonwood *Populus trichocarpa*	56	7	40	25	Fair	Thin crown at top. Dead alder at base.	Remove	3.4
18	Pacific dogwood *Cornus nuttallii*	11	3	40	7	Good		Retain	0.7
19	Red alder *Alnus rubra*	21	4	70	13	Good		Retain	1.3
22	Bitter cherry *Prunus emarginata*	20	6	60	13	Good		Retain	1.2
23	Norway maple *Acer platanoides*	15	3.5	60	7	Good		Remove	0.9
24	Black cottonwood *Populus trichocarpa*	81					Level 1 assessment. Within the proposed tennis court.	Remove	4.9
25	Norway maple *Acer platanoides*	38 (22, 16, 16)	6.5	70	14	Fair	Codominant from base.	Retain	2.3
26	Western redcedar *Thuja plicata*	15					Level 1 assessment. Within the proposed tennis court.	Remove	0.9

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28	Paper birch *Betula papyrifera*	16	4.5	40	11	Good	Dead tree leaning into crown. **Remove dead tree from crown.**	Retain	1.0
29	Black cottonwood *Populus trichocarpa*	55					Level 1 assessment. Within the proposed tennis court.	Remove	3.3
30	Red alder *Alnus rubra*	25					Level 1 assessment. Within the proposed tennis court.	Remove	1.5
32	Cascara *Rhanmnus purshiana*	11					Level 1 assessment. Within the proposed tennis court.	Remove	0.7
33	Red alder *Alnus rubra*	17					Level 1 assessment. Within the proposed tennis court.	Remove	1.0
34	Black cottonwood *Populus trichocarpa*	54	6	50	25	Good	Some dead branches. Codominant at 11 m.	Retain	3.2
35	Red alder *Alnus rubra*	15					Level 1 assessment. Within the proposed tennis court.	Remove	0.9
36	Bitter cherry *Prunus emarginata*	22					Level 1 assessment. Within the proposed tennis court.	Remove	1.3
38	Black cottonwood *Populus trichocarpa*	64 (47, 17)	9.5	50	25	Good	Subdominant stem from base is dead.	Retain	3.8
39	Yellow cedar *Cupressus nootkatensis*	41 (29, 12)	3.5	100	11	Good	Subdominant stem from base.	Retain	2.5
40	English holly *Ilex aquifolium*	15					INVASIVE. Level 1 assessment. Within the proposed tennis court. Excluded from the tree summary table and replacement requirement calculation.	Remove	0.9
43	Black cottonwood *Populus trichocarpa*	42					Level 1 assessment. Within the proposed tennis court.	Remove	2.5

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45	Red alder *Alnus rubra*	17	3	70	10	Good		Retain	1.0
46	Black cottonwood *Populus trichocarpa*	55	4.5	60	25	Fair	Leans northwest.	Retain	3.3
47	Black cottonwood *Populus trichocarpa*	51	6.5	60	24	Good	Tag missing.	Retain	3.1
48	Western redcedar *Thuja plicata*	47 (29, 18)	5	100	9	Good	Codominant at base. Some flagging.	Retain	2.8
49	European birch *Betula pendula*	18 (11, 7)	4	50	15	Fair	2 stems from base. Suppressed. One top previously broken.	Remove	1.1
50	Black cottonwood *Populus trichocarpa*	45	9	60	25	Fair	Some dead branches.	Retain	2.7
51	Red alder *Alnus rubra*	16					Level 1 assessment. Within the proposed tennis court.	Remove	1.0
52	Black cottonwood *Populus trichocarpa*	23					Level 1 assessment. Within the proposed tennis court.	Remove	1.4
53	Red alder *Alnus rubra*	30 (22, 8)			10	Dead	Sloughing bark.	Remove	1.8
55	Linden *Tilia sp.*	17	4.5	80	12	Good	Pistol butt.	Retain	1.0
56	Black cottonwood *Populus trichocarpa*	26	8	70	17	Fair	Bows northwest.	Retain	1.6
57	Red alder *Alnus rubra*	15					Level 1 assessment. Within the proposed tennis court.	Remove	0.9
58	Black cottonwood *Populus trichocarpa*	25	4	50	12	Fair	Bows west.	Retain	1.5
59	Bigleaf maple *Acer macrophyllum*	48					Level 1 assessment. Within the proposed tennis court.	Remove	2.9

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61	Red alder *Alnus rubra*	19			18	Dead	Sloughing bark.	Remove	1.1
62	Black cottonwood *Populus trichocarpa*	62	5	70	18	Good		Retain	3.7
63	Red alder *Alnus rubra*	13	3	70	9	Fair	Reaches west.	Retain	0.8
64	Sitka spruce *Picea sitchensis*	17					Level 1 assessment. Within the proposed tennis court.	Remove	1.0
65	Red alder *Alnus rubra*	12	2	50	9	Fair	Reaches west.	Retain	0.7
66	Black cottonwood *Populus trichocarpa*	63					Level 1 assessment. Within the proposed tennis court.	Remove	3.8
68	Red alder *Alnus rubra*	14	2	80	14	Good		Remove	0.8
69	Red alder *Alnus rubra*	18	3	60	9	Fair	Reaches west.	Retain	1.1
70	Paper birch *Betula papyrifera*	16					Level 1 assessment. Within the proposed tennis court.	Remove	1.0
71	Black cottonwood *Populus trichocarpa*	25	6	60	20	Good		Retain	1.5
72	Red alder *Alnus rubra*	13			15	Dead	Dead standing.	Remove	0.8
73	Norway maple *Acer platanoides*	23	2.0	90	11	Good	Reaches south.	Remove	1.4
73 (1)	Red alder *Alnus rubra*	22	3	70	8	Fair	Small wound on lower trunk.	Retain	1.3
74	Linden *Tilia sp.*	17	2.0	90	8	Good	Aphids. Codominant at 4 m.	Remove	1.0

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74 (1)	Red alder *Alnus rubra*	11	3	70	7	Fair	Bows west.	Retain	0.7
75	Western redcedar *Thuja plicata*	55	4.5	100	12	Good	Codominant at 4 m.	Remove	3.3
75 (1)	Black cottonwood *Populus trichocarpa*	62					Level 1 assessment. Within the proposed tennis court.	Remove	3.7
76	Red alder *Alnus rubra*	22	6	70	9	Fair	Bows west.	Retain	1.3
77	Red alder *Alnus rubra*	16	2.5	60	9	Fair	Some dead branches.	Retain	1.0
79	Western redcedar *Thuja plicata*	21					Level 1 assessment. Within the proposed tennis court.	Remove	1.3
79 (1)	Red alder *Alnus rubra*	16	2.5	70	11	Good		Retain	1.0
80	Austrian pine *Pinus nigra*	33					Level 1 assessment. Within the proposed tennis court.	Remove	2.0
80 (1)	Red alder *Alnus rubra*	9	2	60	7	Fair		Retain	0.5
81	Black cottonwood *Populus trichocarpa*	50 (25, 25, 22)				Poor	2 stems have dead tops.	Remove	3.0
81 (1)	Black cottonwood *Populus trichocarpa*	47	5	50	25	Fair	Some epicormics up trunk.	Retain	2.8
82	Red alder *Alnus rubra*	24	2	70	16	Good	Small basal wound. Reaches west.	Retain	1.4
83	Black cottonwood *Populus trichocarpa*	53					Level 1 assessment. Within the proposed tennis court.	Remove	3.2
84	Black cottonwood *Populus trichocarpa*	26	7	70	17	Good	Reaches north.	Remove	1.6

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85	Black cottonwood *Populus trichocarpa*	30	1.0	40	12	Poor	Dead top.	Remove	1.8
85 (1)	Red alder *Alnus rubra*	23					Level 1 assessment. Within the proposed tennis court.	Remove	1.4
86	Black cottonwood *Populus trichocarpa*	48	4.0	90	20	Good		Retain	2.9
86 (1)	Black cottonwood *Populus trichocarpa*	30	8	60	20	Good	Reaches northwest.	Retain	1.8
87	Black cottonwood *Populus trichocarpa*	31	3.0	80	14	Good		Remove	1.9
88	Black cottonwood *Populus trichocarpa*	36	3.5	70	14	Fair	Some dead branches. Damaged surface root.	Remove	2.2
88 (1)	Bitter cherry *Prunus emarginata*	28	4.5	60	19	Good		Retain	1.7
89	Black cottonwood *Populus trichocarpa*	65 (43, 22)					Level 1 assessment. Within the proposed tennis court.	Remove	3.9
90	Black cottonwood *Populus trichocarpa*	77 (45, 32)					Level 1 assessment. Within the proposed tennis court.	Remove	4.6
90 (1)	Norway maple *Acer platanoides*	24	4	60	12	Good	Damage to surface roots. Crown weighted to south.	Retain	1.4
91	Bitter cherry *Prunus emarginata*	24	3.5	30	18	Fair	Codominant at 10 m.	Retain	1.4
92	Black cottonwood *Populus trichocarpa*	28					Level 1 assessment. Within the proposed tennis court.	Remove	1.7
92 (1)	Flowering cherry *Prunus sp.*	19	4	70	10	Good		Remove	1.1

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93	Black cottonwood *Populus trichocarpa*	28	2.5	80	13	Fair		Remove	1.7
93 (1)	European mountain ash *Sorbus aucuparia*	13 (10, 3)					Level 1 assessment. Within the proposed tennis court.	Remove	0.8
94	Douglas fir *Pseudotsuga menziesii*	43	6.5	80	18	Good		Retain	2.6
94 (1)	Black cottonwood *Populus trichocarpa*	57	8.5	50	25	Good	Subdominant stem from base is dead.	Retain	3.4
95	Austrian pine *Pinus nigra*	34	4.5	70	14	Good	Some dead branches. Paving machine parked near base.	Retain	2.0
95 (1)	Red alder *Alnus rubra*	24			14	Dead	Sweeps west.	Remove	1.4
96	Austrian pine *Pinus nigra*	36	4.5	80	12	Good	Codominant at 4 m. Crook above union	Remove	2.2
96 (1)	Pin oak *Quercus palustris*	54	6	60	18	Good	Some damage to surface roots. Uplifting sidewalk.	Retain	3.2
97	Western redcedar *Thuja plicata*	60					Level 1 assessment. Within the proposed tennis court.	Remove	3.6
97 (1)	Black cottonwood *Populus trichocarpa*	35	7	70	24	Good	Ivy up trunk.	Remove	2.1
98	Red alder *Alnus rubra*	32	6	60	19	Fair	Some dead branches. Too bows southwest.	Retain	1.9
99	Red alder *Alnus rubra*	35			20	Dead	Dead standing.	Remove	2.1
100	Cappadocian maple *Acer cappadocicum*	12	3.5	60	11	Good		Retain	0.7
101	Eastern white pine *Pinus strobus*	28	6.0	80	14	Good		Retain	1.7

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102	Black cottonwood *Populus trichocarpa*	41					Level 1 assessment. Within the proposed tennis court.	Remove	2.5
103	Black cottonwood *Populus trichocarpa*	55			24	Dead	Dead standing. Pecker cavities. Good wildlife tree if feasible. **To be wlidlifed at 6 m with a jagged top. Refer to Appendix E.**	Retain	3.3
104	Red alder *Alnus rubra*	22	3	70	17	Good		Remove	1.3
105	Black cottonwood *Populus trichocarpa*	30					Level 1 assessment. Within the proposed tennis court.	Remove	1.8
106	Black cottonwood *Populus trichocarpa*	76					Level 1 assessment. Within the proposed tennis court.	Remove	4.6
107	Red alder *Alnus rubra*	24					Level 1 assessment. Within the proposed tennis court.	Remove	1.4
108	Black cottonwood *Populus trichocarpa*	60	8.5	70	25	Fair	Crooks at 6 m with subdominant stem. Some dead branches.	Retain	3.6
109	Bigleaf maple *Acer macrophyllum*	11					Level 1 assessment. Within the proposed tennis court.	Remove	0.7
110	Black cottonwood *Populus trichocarpa*	65					Level 1 assessment. Within the proposed tennis court.	Remove	3.9
111	Bitter cherry *Prunus emarginata*	12					Level 1 assessment. Within the proposed tennis court.	Remove	0.7
112	Black cottonwood *Populus trichocarpa*	162					3 stems from base. Level 1 assessment. Within the proposed tennis court.	Remove	9.7
113	Flowering cherry *Prunus sp.*	16					Level 1 assessment. Within the proposed tennis court.	Remove	1.0

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114	Black cottonwood *Populus trichocarpa*	81					Level 1 assessment. Within the proposed tennis court.	Remove	4.9
115	Black cottonwood *Populus trichocarpa*	97					Codominant at 1 m. Level 1 assessment. Within the proposed tennis court.	Remove	5.8
116	Douglas fir *Pseudotsuga menziesii*	25					Level 1 assessment. Within the proposed tennis court.	Remove	1.5
117	Black cottonwood *Populus trichocarpa*	21					Level 1 assessment. Within the proposed tennis court.	Remove	1.3
118	Douglas fir *Pseudotsuga menziesii*	55					Level 1 assessment. Within the proposed tennis court.	Remove	3.3
120	Western redcedar *Thuja plicata*	26	3.0	70	14	Good	1 m vertical wound at 1 m.	Remove	1.6
121	Black cottonwood *Populus trichocarpa*	66					Level 1 assessment. Within the proposed tennis court.	Remove	4.0
122	Pin oak *Quercus palustris*	36	5	50	16	Good	Codominant at 7 m.	Retain	2.2
123	Bigleaf maple *Acer macrophyllum*	20					Level 1 assessment. Within the proposed tennis court.	Remove	1.2
124	Cascara *Rhanmnus purshiana*	16					Level 1 assessment. Within the proposed tennis court.	Remove	1.0
125	Red alder *Alnus rubra*	25			9	Dead	Decayed at base. Leans east. Horizontal crack at 3 m. Failure imminent.	Remove	1.5
126	Pin oak *Quercus palustris*	37	7	60	14	Good		Retain	2.2
127	Red alder *Alnus rubra*	21					Level 1 assessment. Within the proposed tennis court.	Remove	1.3
128	Black cottonwood *Populus trichocarpa*	52					Level 1 assessment. Within the proposed tennis court.	Remove	3.1

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129	Red alder *Alnus rubra*	12					Level 1 assessment. Within the proposed tennis court.	Remove	0.7
130	Red alder *Alnus rubra*	34					Level 1 assessment. Within the proposed tennis court.	Remove	2.0
131	Red alder *Alnus rubra*	13					Level 1 assessment. Within the proposed tennis court.	Remove	0.8
132	Douglas fir *Pseudotsuga menziesii*	31	5.0	79	12	Good		Retain	1.9
133	Pin oak *Quercus palustris*	41	6.5	50	18	Good		Retain	2.5
134	Black cottonwood *Populus trichocarpa*	35					Level 1 assessment. Within the proposed tennis court.	Remove	2.1
135	Black cottonwood *Populus trichocarpa*	26					Level 1 assessment. Within the proposed tennis court.	Remove	1.6
136	Black cottonwood *Populus trichocarpa*	23					Level 1 assessment. Within the proposed tennis court.	Remove	1.4
137	Paper birch *Betula papyrifera*	36 (19, 17)					Level 1 assessment. Within the proposed tennis court.	Remove	2.2
138	Red alder *Alnus rubra*	14					Level 1 assessment. Within the proposed tennis court.	Remove	0.8
139	Douglas fir *Pseudotsuga menziesii*	23					Level 1 assessment. Within the proposed tennis court.	Remove	1.4
140	Douglas fir *Pseudotsuga menziesii*	39					Level 1 assessment. Within the proposed tennis court.	Remove	2.3
141	Red alder *Alnus rubra*	21					Level 1 assessment. Within the proposed tennis court.	Remove	1.3
142	Black cottonwood *Populus trichocarpa*	22					Level 1 assessment. Within the proposed tennis court.	Remove	1.3

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143	Norway maple *Acer platanoides*	33	5.5	70	12	Good	Damaged surface roots. Seam in trunk.	Retain	2.0
144	Black cottonwood *Populus trichocarpa*	48					Level 1 assessment. Within the proposed tennis court.	Remove	2.9
145	Western redcedar *Thuja plicata*	17					Level 1 assessment. Within the proposed tennis court.	Remove	1.0
146	Douglas fir *Pseudotsuga menziesii*	47	6.0	60	20	Good	Root previously cut for sidewalk.	Retain	2.8
148	Paper birch *Betula papyrifera*	13	5	50	9	Good	Reaches North.	Retain	0.8
149	Douglas fir *Pseudotsuga menziesii*	42	6.0	70	18	Good		Remove	2.5
150	Douglas fir *Pseudotsuga menziesii*	47					Level 1 assessment. Within the proposed tennis court.	Remove	2.8
151	Red alder *Alnus rubra*	18			10	Dead	Sloughing bark. Some decay at base.	Remove	1.1
153	Red alder *Alnus rubra*	21	4.5	70	10	Good		Retain	1.3
154	Eastern white pine *Pinus strobus*	29	4.0	70	18	Good		Remove	1.7
155	Paper birch *Betula papyrifera*	21					Level 1 assessment. Within the proposed tennis court.	Remove	1.3
156	Red alder *Alnus rubra*	21				Poor	Dead top. Level 1 assessment. Within the proposed tennis court.	Remove	1.3
157	Red alder *Alnus rubra*	26					Level 1 assessment. Within the proposed tennis court.	Remove	1.6
159	Red alder *Alnus rubra*	30	3	70	15	Good		Retain	1.8

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160	Western redcedar *Thuja plicata*	29	3.0	80	18	Good		Remove	1.7
161	Eastern white pine *Pinus strobus*	28	4.5	80	16	Good	Some damage to surface roots.	Remove	1.7
162	Douglas fir *Pseudotsuga menziesii*	47	6.0	80	20	Good		Retain	2.8
163	Red alder *Alnus rubra*	25					Level 1 assessment. Within the proposed tennis court.	Remove	1.5
164	Black cottonwood *Populus trichocarpa*	26					Level 1 assessment. Within the proposed tennis court.	Remove	1.6
165	Pin oak *Quercus palustris*	35	7	60	18	Good	Crown more developed to south. south. Crook at 7 m.	Retain	2.1
166	Bitter cherry *Prunus emarginata*	26	3	20	20	Fair	Poor taper. Dead subdominant stem.	Remove	1.6
167	Red alder *Alnus rubra*	12	5	60	16	Fair	Poor taper.	Remove	0.7
168	Cascara *Rhanmnus purshiana*	16					Level 1 assessment. Within the proposed tennis court.	Remove	1.0
169	Pin oak *Quercus palustris*	57	6.5	50	20	Good	Some damage to surface roots.	Retain	3.4
170	Black cottonwood *Populus trichocarpa*	42					Level 1 assessment. Within the proposed tennis court.	Remove	2.5
171	Black cottonwood *Populus trichocarpa*	55					Level 1 assessment. Within the proposed tennis court.	Remove	3.3
172	Western hemlock *Tsuga heterophylla*	11					Level 1 assessment. Within the proposed tennis court.	Remove	0.7
173	European birch *Betula pendula*	21 (11, 10)					Level 1 assessment. Within the proposed tennis court.	Remove	1.3

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174	Crabapple *Malus sp.*	20 (13, 7)	4.5	50	8	Good	Subdominant stem at 1.5 m.	Retain	1.2
175	Red alder *Alnus rubra*	16				Poor	Dead branches.	Remove	1.0
176	Red alder *Alnus rubra*	36	7	70	20	Fair	Bows northwest.	Retain	2.2
177	Western redcedar *Thuja plicata*	29	4.0	70	9	Good		Retain	1.7
178	Black cottonwood *Populus trichocarpa*	32					Level 1 assessment. Within the proposed tennis court.	Remove	1.9
179	Black cottonwood *Populus trichocarpa*	65					Level 1 assessment. Within the proposed tennis court.	Remove	3.9
180	Red alder *Alnus rubra*	17	4	70	11	Good		Retain	1.0
181	Black cottonwood *Populus trichocarpa*	91					Level 1 assessment. Within the proposed tennis court.	Remove	5.5
182	Western hemlock *Tsuga heterophylla*	22				Dead	Slough bark.	Remove	1.3
183	Black cottonwood *Populus trichocarpa*	35					Level 1 assessment. Within the proposed tennis court.	Remove	2.1
184	Red alder *Alnus rubra*	24				Dead	Level 1 assessment. Within the proposed tennis court.	Remove	1.4
185	Black cottonwood *Populus trichocarpa*	48					Level 1 assessment. Within the proposed tennis court.	Remove	2.9
186	Red alder *Alnus rubra*	20					Level 1 assessment. Within the proposed tennis court.	Remove	1.2
187	Douglas fir *Pseudotsuga menziesii*	37	6.5	70	17	Good	Roots uplifting asphalt.	Remove	2.2

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188	Pin oak *Quercus palustris*	42	6	50	18	Good	Lifting sidewalk.	Retain	2.5
189	Black cottonwood *Populus trichocarpa*	34					Level 1 assessment. Within the proposed tennis court.	Remove	2.0
190	Red alder *Alnus rubra*	13					Level 1 assessment. Within the proposed tennis court.	Remove	0.8
191	Western redcedar *Thuja plicata*	15					Level 1 assessment. Within the proposed tennis court.	Remove	0.9
193	Red alder *Alnus rubra*	22					Level 1 assessment. Within the proposed tennis court.	Remove	1.3
194	Red alder *Alnus rubra*	25					Level 1 assessment. Within the proposed tennis court.	Remove	1.5
195	Black cottonwood *Populus trichocarpa*	38					Level 1 assessment. Within the proposed tennis court.	Remove	2.3
196	Eastern white pine *Pinus strobus*	32					Level 1 assessment. Within the proposed tennis court.	Remove	1.9
197	Red alder *Alnus rubra*	23	4	70	18	Fair	Reaches northwest.	Remove	1.4
199	Black cottonwood *Populus trichocarpa*	29					Level 1 assessment. Within the proposed tennis court.	Remove	1.7
200	Black cottonwood *Populus trichocarpa*	89	9	50	26	Fair	Heavy ivy up trunk.	Retain	5.3
201	Western redcedar *Thuja plicata*	41	4.0	70	9	Good	On a mound.	Retain	2.5
203	Cascara *Rhanmnus purshiana*	12	4	50	6	Good	Reaches west.	Retain	0.7
205	Serbian spruce *Picea omorika*	22	3	90	11	Good		Retain	1.3

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206	Western hemlock *Tsuga heterophylla*	26					Level 1 assessment. Within the proposed tennis court.	Remove	1.6
207	Black cottonwood *Populus trichocarpa*	91					Basal cavity. Previous stem failure. Level 1 assessment. Within the proposed tennis court.	Remove	5.5
208	Yellow cedar *Cupressus nootkatensis*	36	4	100	12	Good		Retain	2.2
209	Flowering cherry *Prunus sp.*	17					Level 1 assessment. Within the proposed tennis court.	Remove	1.0
212	European mountain ash *Sorbus aucuparia*	9					Level 1 assessment. Within the proposed tennis court.	Remove	0.5
213	Red alder *Alnus rubra*	28					Level 1 assessment. Within the proposed tennis court.	Remove	1.7
214	Black cottonwood *Populus trichocarpa*	51					Level 1 assessment. Within the proposed tennis court.	Remove	3.1
215	Red alder *Alnus rubra*	39				Fair	Hanger.	Remove	2.3
216	Paper birch *Betula papyrifera*	15	3.5	30	9	Fair	Reaches North. Large surface root.	Retain	0.9
217	European birch *Betula pendula*	22 (11, 11, 8)	3	70	9	Fair	3 stems from base. Growing through fence.	Remove	1.3
218	Bigleaf maple *Acer macrophyllum*	36	5	70	20	Good	Dead tree leaning in crown.	Retain	2.2
219	Red maple *Acer rubrum*	41	5	60	14	Good	Some damage to surface roots.	Retain	2.5
220	Paper birch *Betula papyrifera*	10	2	40	8	Fair	Reaches east.	Remove	0.6

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221	Red alder *Alnus rubra*	26	4	70	13	Good		Retain	1.6
226	Pin oak *Quercus palustris*	35	5.5	40	16	Good	Lifting sidewalk.	Retain	2.1
227	Black cottonwood *Populus trichocarpa*	69					Level 1 assessment. Within the proposed tennis court.	Remove	4.1
228	Norway maple *Acer platanoides*	30	6	79	12	Good	Tag missing.	Retain	1.8
229	Cascara *Rhanmnus purshiana*	14	4	40	9	Poor	Dead top. Dead branches.	Retain	0.8
230	Serbian spruce *Picea omorika*	17	1.5	100	9	Good		Retain	1.0
231	Serbian spruce *Picea omorika*	27	3	90	12	Good	Bamboo growing at base.	Retain	1.6
232	Red alder *Alnus rubra*	15			8	Dead		Remove	0.9
233	Red alder *Alnus rubra*	11	4	50	7	Good		Retain	0.7
235	Black cottonwood *Populus trichocarpa*	52					Level 1 assessment. Within the proposed tennis court.	Remove	3.1
236	Black cottonwood *Populus trichocarpa*	70	8.5	70	24	Fair	Asphalt at base is lifting. Remove?	Remove	4.2
237	Red alder *Alnus rubra*	17					Level 1 assessment. Within the proposed tennis court.	Remove	1.0
238	Flowering cherry *Prunus sp.*	18					Level 1 assessment. Within the proposed tennis court.	Remove	1.1
240	Red alder *Alnus rubra*	13	5.5	40	9	Good	Suppressed. Bows west.	Retain	0.8

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241	Black cottonwood *Populus trichocarpa*	27					Level 1 assessment. Within the proposed tennis court.	Remove	1.6
242	Black cottonwood *Populus trichocarpa*	98	10	40	28	Fair	Some dead branches. Reaches northwest. Growing on mound.	Retain	5.9
243	Bitter cherry *Prunus emarginata*	18					Level 1 assessment. Within the proposed tennis court.	Remove	1.1
244	Red alder *Alnus rubra*	13	4	50	8	Good	Leans north.	Retain	0.8
245	Red alder *Alnus rubra*	32	4.5	70	20	Good	Sweeps west.	Retain	1.9
246	Black cottonwood *Populus trichocarpa*	56	7	70	23	Good	Reaches west.	Retain	3.4
247	Pin oak *Quercus palustris*	23	5.5	50	15	Good		Retain	1.4
248	Bigleaf maple *Acer macrophyllum*	51	9.5	70	20	Fair	Broken branch. Reaches southwest. Heavy ivy up trunk.	Retain	3.1
250	Cascara *Rhanmnus purshiana*	11	4	40	8	Fair	On mound.	Retain	0.7
252	Black cottonwood *Populus trichocarpa*	42	10	60	25	Fair	Reaches south. Some dead branches.	Remove	2.5
253	Black cottonwood *Populus trichocarpa*	62 (37, 25)	8	70	25	Fair	2 stems from base.	Retain	3.7
254	Western redcedar *Thuja plicata*	60 (35, 25, 22)	4.0	70	10	Good	Recent crown raising.	Retain	3.6
255	Paper birch *Betula papyrifera*	12					Level 1 assessment. Within the proposed tennis court.	Remove	0.7

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256	Black cottonwood *Populus trichocarpa*	24	4	70	22	Fair	Reaches south.	Retain	1.4
258	Western redcedar *Thuja plicata*	46					Level 1 assessment. Within the proposed tennis court.	Remove	2.8
259	Norway maple *Acer platanoides*	28	5.5	70	12	Good	Damage to surface roots. Crown weighted to southwest.	Retain	1.7
261	Black cottonwood *Populus trichocarpa*	49					Level 1 assessment. Within the proposed tennis court.	Remove	2.9
262	Black cottonwood *Populus trichocarpa*	31					Level 1 assessment. Within the proposed tennis court.	Remove	1.9
264	Vine maple *Acer circinatum*	22 (12, 10, 10, 8, 7, 7)	8	50	8	Good	Multiple stems from base. Dead stem leaning into crown.	Retain	1.3
265	Red alder *Alnus rubra*	24			12	Dead		Remove	1.4
267	Pin oak *Quercus palustris*	49	7	60	20	Good	Some damage to surface roots.	Retain	2.9
268	Norway maple *Acer platanoides*	18	3	70	8	Good	Some damage to surface roots.	Remove	1.1
269	Pin oak *Quercus palustris*	35	5.5	50	18	Good	Boulevard disturbed 1 m from trunk.	Retain	2.1
270	Black cottonwood *Populus trichocarpa*	58					Level 1 assessment. Within the proposed tennis court.	Remove	3.5
271	Red alder *Alnus rubra*	32					Level 1 assessment. Within the proposed tennis court.	Remove	1.9
272	Red alder *Alnus rubra*	13	2	60	8	Good		Retain	0.8

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273	Red alder *Alnus rubra*	37			16	Dead		Remove	2.2
274	Serbian spruce *Picea omorika*	21	2.0	100	6	Good		Retain	1.3
275	Serbian spruce *Picea omorika*	22	2	90	7	Good		Retain	1.3
277	Black cottonwood *Populus trichocarpa*	43	10	70	26	Fair	Some dead branches. Reaches south.	Retain	2.6
278	Bitter cherry *Prunus emarginata*	16	2.5	30	15	Fair	Poor taper. Crook at 8 m.	Retain	1.0
279	Red alder *Alnus rubra*	27	4.5	50	15	Good		Retain	1.6
280	Black cottonwood *Populus trichocarpa*	65					Level 1 assessment. Within the proposed tennis court.	Remove	3.9
281	Red alder *Alnus rubra*	20					Level 1 assessment. Within the proposed tennis court.	Remove	1.2
282	Black cottonwood *Populus trichocarpa*	27					Level 1 assessment. Within the proposed tennis court.	Remove	1.6
283	Black cottonwood *Populus trichocarpa*	42	8	40	15	Fair	Dead top. Reaches west.	Retain	2.5
284	Red alder *Alnus rubra*	32					Level 1 assessment. Within the proposed tennis court.	Remove	1.9
285	Red alder *Alnus rubra*	23				Poor	Level 1 assessment. Within the proposed tennis court.	Remove	1.4
286	Black cottonwood *Populus trichocarpa*	38	5.5	40	25	Fair	Some dead branches.	Retain	2.3
287	Black cottonwood *Populus trichocarpa*	20			14	Dead		Retain	1.2

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288	Western redcedar *Thuja plicata*	52	4	90	14	Good	Possibly nest in crown.	Retain	3.1
289	Red alder *Alnus rubra*	17					Level 1 assessment. Within the proposed tennis court.	Remove	1.0
292	Bitter cherry *Prunus emarginata*	29	5	40	17	Fair	Codominant at 6 m	Retain	1.7
295	Black cottonwood *Populus trichocarpa*	100	10	50	25	Fair	Some dead branches. Hanger.	Retain	6.0
296	Paper birch *Betula papyrifera*	14					Level 1 assessment. Within the proposed tennis court.	Remove	0.8
297	Black cottonwood *Populus trichocarpa*	30					Level 1 assessment. Within the proposed tennis court.	Remove	1.8
298	Black cottonwood *Populus trichocarpa*	33	9	70	25	Fair	Reaches south.	Retain	2.0
299	Serbian spruce *Picea omorika*	18	2	90	14	Good	Tree protection barrier intact.	Retain	1.1
300	Black cottonwood *Populus trichocarpa*	38					Level 1 assessment. Within the proposed tennis court.	Remove	2.3
301	Western redcedar *Thuja plicata*	14					Level 1 assessment. Within the proposed tennis court.	Remove	0.8
302	Red alder *Alnus rubra*	19					Level 1 assessment. Within the proposed tennis court.	Remove	1.1
303	Red alder *Alnus rubra*	17					Level 1 assessment. Within the proposed tennis court.	Remove	1.0
304	Red alder *Alnus rubra*	14					Level 1 assessment. Within the proposed tennis court.	Remove	0.8
305	Red alder *Alnus rubra*	14					Level 1 assessment. Within the proposed tennis court.	Remove	0.8

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306	Red alder *Alnus rubra*	20					Level 1 assessment. Within the proposed tennis court.	Remove	1.2
307	Red alder *Alnus rubra*	20					Level 1 assessment. Within the proposed tennis court.	Remove	1.2
308	Bitter cherry *Prunus emarginata*	10					Level 1 assessment. Within the proposed tennis court.	Remove	0.6
309	Vine maple *Acer circinatum*	12					Level 1 assessment. Within the proposed tennis court.	Remove	0.7
310	Red alder *Alnus rubra*	17					Level 1 assessment. Within the proposed tennis court.	Remove	1.0
311	Western redcedar *Thuja plicata*	18					Level 1 assessment. Within the proposed tennis court.	Remove	1.1
312	Red alder *Alnus rubra*	22					Level 1 assessment. Within the proposed tennis court.	Remove	1.3
313	Black cottonwood *Populus trichocarpa*	20					Level 1 assessment. Within the proposed tennis court.	Remove	1.2
314	Red alder *Alnus rubra*	12				Dead	Level 1 assessment. Within the proposed tennis court.	Remove	0.7
315	Western redcedar *Thuja plicata*	17					Level 1 assessment. Within the proposed tennis court.	Remove	1.0
316	Red alder *Alnus rubra*	12					Level 1 assessment. Within the proposed tennis court.	Remove	0.7
317	European birch *Betula pendula*	23					Level 1 assessment. Within the proposed tennis court.	Remove	1.4
318	Austrian pine *Pinus nigra*	33	4.0	70	12	Good	Subdominant stem at 5 m.	Remove	2.0
319	Red alder *Alnus rubra*	25					Level 1 assessment. Within the proposed tennis court.	Remove	1.5

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320	Red alder *Alnus rubra*	15					Level 1 assessment. Within the proposed tennis court.	Remove	0.9
321	Black cottonwood *Populus trichocarpa*	52					Level 1 assessment. Within the proposed tennis court.	Remove	3.1
322	Honey locust *Gleditsia triacanthos*	38	6.0	80	10	Good		Remove	2.3
323	Red alder *Alnus rubra*	20					Level 1 assessment. Within the proposed tennis court.	Remove	1.2
324	Bigleaf maple *Acer macrophyllum*	13					Level 1 assessment. Within the proposed tennis court.	Remove	0.8
325	Linden *Tilia sp.*	33	4.0	70	14	Good	Aphids.	Remove	2.0
326	Black cottonwood *Populus trichocarpa*	33					Level 1 assessment. Within the proposed tennis court.	Remove	2.0
327	Black cottonwood *Populus trichocarpa*	40					Level 1 assessment. Within the proposed tennis court.	Remove	2.4
328	Red alder *Alnus rubra*	18					Level 1 assessment. Within the proposed tennis court.	Remove	1.1
329	Black cottonwood *Populus trichocarpa*	53					Level 1 assessment. Within the proposed tennis court.	Remove	3.2
330	Black cottonwood *Populus trichocarpa*	40					Level 1 assessment. Within the proposed tennis court.	Remove	2.4
331	Red alder *Alnus rubra*	12					Level 1 assessment. Within the proposed tennis court.	Remove	0.7
332	Red alder *Alnus rubra*	17					Level 1 assessment. Within the proposed tennis court.	Remove	1.0
333	Sitka spruce *Picea sitchensis*	13					Level 1 assessment. Within the proposed tennis court.	Remove	0.8

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334	Black cottonwood *Populus trichocarpa*	40					Level 1 assessment. Within the proposed tennis court.	Remove	2.4
335	Black cottonwood *Populus trichocarpa*	45					Level 1 assessment. Within the proposed tennis court.	Remove	2.7
336	Red alder *Alnus rubra*	31	5.0	70	13	Good		Retain	1.9
337	Black cottonwood *Populus trichocarpa*	57					Level 1 assessment. Within the proposed tennis court.	Remove	3.4
338	Red alder *Alnus rubra*	25				Poor	Few live branches. Dead top.	Remove	1.5
339	Black cottonwood *Populus trichocarpa*	42					Level 1 assessment. Within the proposed tennis court.	Remove	2.5
340	Bitter cherry *Prunus emarginata*	16					Level 1 assessment. Within the proposed tennis court.	Remove	1.0
341	Bitter cherry *Prunus emarginata*	19					Level 1 assessment. Within the proposed tennis court.	Remove	1.1
342	Red alder *Alnus rubra*	14					Level 1 assessment. Within the proposed tennis court.	Remove	0.8
343	Black cottonwood *Populus trichocarpa*	15					Level 1 assessment. Within the proposed tennis court.	Remove	0.9
344	Red alder *Alnus rubra*	12					Level 1 assessment. Within the proposed tennis court.	Remove	0.7
345	Western redcedar *Thuja plicata*	11					Level 1 assessment. Within the proposed tennis court.	Remove	0.7
346	Red alder *Alnus rubra*	11					Level 1 assessment. Within the proposed tennis court.	Remove	0.7
347	Black cottonwood *Populus trichocarpa*	57					Level 1 assessment. Within the proposed tennis court.	Remove	3.4

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348	Red alder *Alnus rubra*	19					Level 1 assessment. Within the proposed tennis court.	Remove	1.1
349	Linden *Tilia sp.*	31	4.0	70	13	Good	Aphids.	Remove	1.9
350	Red alder *Alnus rubra*	33					Level 1 assessment. Within the proposed tennis court.	Remove	2.0
351	Western redcedar *Thuja plicata*	13					Level 1 assessment. Within the proposed tennis court.	Remove	0.8
352	Black cottonwood *Populus trichocarpa*	20					Level 1 assessment. Within the proposed tennis court.	Remove	1.2
353	Black cottonwood *Populus trichocarpa*	73 (40, 33)					Some small dead branches. Level 1 assessment. Within the proposed tennis court.	Remove	4.4
354	Linden *Tilia sp.*	25	3.0	80	12	Good	Small pruning wounds. Sooty mold.	Remove	1.5
355	Red alder *Alnus rubra*	28					Level 1 assessment. Within the proposed tennis court.	Remove	1.7
356	Black cottonwood *Populus trichocarpa*	45					Level 1 assessment. Within the proposed tennis court.	Remove	2.7
357	Red alder *Alnus rubra*	23					Level 1 assessment. Within the proposed tennis court.	Remove	1.4
358	Red alder *Alnus rubra*	31					Level 1 assessment. Within the proposed tennis court.	Remove	1.9
359	Bitter cherry *Prunus emarginata*	16					Level 1 assessment. Within the proposed tennis court.	Remove	1.0
360	Red alder *Alnus rubra*	21					Level 1 assessment. Within the proposed tennis court.	Remove	1.3
361	Bitter cherry *Prunus emarginata*	16					Level 1 assessment. Within the proposed tennis court.	Remove	1.0

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362	Red alder *Alnus rubra*	16					Level 1 assessment. Within the proposed tennis court.	Remove	1.0
363	Cascara *Rhanmnus purshiana*	16				Dead	Dead. Leaning on tree #338. Remove immediately existing pathway is target.	Remove	1.0
364	Red alder *Alnus rubra*	33					Level 1 assessment. Within the proposed tennis court.	Remove	2.0
365	Douglas fir *Pseudotsuga menziesii*	55					Level 1 assessment. Within the proposed tennis court.	Remove	3.3
366	Red alder *Alnus rubra*	17					Level 1 assessment. Within the proposed tennis court.	Remove	1.0
367	Red alder *Alnus rubra*	18					Level 1 assessment. Within the proposed tennis court.	Remove	1.1
368	Red alder *Alnus rubra*	33					Level 1 assessment. Within the proposed tennis court.	Remove	2.0
369	Red alder *Alnus rubra*	27					Level 1 assessment. Within the proposed tennis court.	Remove	1.6
370	Red maple *Acer rubrum*	28	4.0	70	14	Good		Retain	1.7
371	Red alder *Alnus rubra*	29					Level 1 assessment. Within the proposed tennis court.	Remove	1.7
372	Black cottonwood *Populus trichocarpa*	37					Level 1 assessment. Within the proposed tennis court.	Remove	2.2
373	Black cottonwood *Populus trichocarpa*	32					Level 1 assessment. Within the proposed tennis court.	Remove	1.9
374	Black cottonwood *Populus trichocarpa*	12					Level 1 assessment. Within the proposed tennis court.	Remove	0.7
375	Red alder *Alnus rubra*	25					Level 1 assessment. Within the proposed tennis court.	Remove	1.5

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376	Black cottonwood *Populus trichocarpa*	112 (62, 50)					Codominant at base. Level 1 assessment. Within the proposed tennis court.	Remove	6.7
377	Red alder *Alnus rubra*	12					Level 1 assessment. Within the proposed tennis court.	Remove	0.7
378	Linden *Tilia sp.*	32	4.0	80	12	Good	Aphids.	Remove	1.9
379	Red alder *Alnus rubra*	32					Level 1 assessment. Within the proposed tennis court.	Remove	1.9
380	Black cottonwood *Populus trichocarpa*	33					Level 1 assessment. Within the proposed tennis court.	Remove	2.0
381	Red alder *Alnus rubra*	25					Level 1 assessment. Within the proposed tennis court.	Remove	1.5
382	Red alder *Alnus rubra*	12					Level 1 assessment. Within the proposed tennis court.	Remove	0.7
383	Black cottonwood *Populus trichocarpa*	30					Level 1 assessment. Within the proposed tennis court.	Remove	1.8
384	Red alder *Alnus rubra*	23					Level 1 assessment. Within the proposed tennis court.	Remove	1.4
385	Linden *Tilia sp.*	33	4.0	70	12	Good	Aphids.	Remove	2.0
386	Black cottonwood *Populus trichocarpa*	37					Level 1 assessment. Within the proposed tennis court.	Remove	2.2
387	Red alder *Alnus rubra*	20					Level 1 assessment. Within the proposed tennis court.	Remove	1.2
388	Red alder *Alnus rubra*	32					Level 1 assessment. Within the proposed tennis court.	Remove	1.9

TREE INVENTORY ASSESSMENT

389	Red alder *Alnus rubra*	32 (21, 11)					Level 1 assessment. Within the proposed tennis court.	Remove	1.9
390	Black cottonwood *Populus trichocarpa*	34					Level 1 assessment. Within the proposed tennis court.	Remove	2.0
391	Red alder *Alnus rubra*	15					Level 1 assessment. Within the proposed tennis court.	Remove	0.9
392	Bitter cherry *Prunus emarginata*	26					Level 1 assessment. Within the proposed tennis court.	Remove	1.6
393	Western redcedar *Thuja plicata*	14					Level 1 assessment. Within the proposed tennis court.	Remove	0.8
394	Black cottonwood *Populus trichocarpa*	68					Level 1 assessment. Within the proposed tennis court.	Remove	4.1
395	Black cottonwood *Populus trichocarpa*	29					Level 1 assessment. Within the proposed tennis court.	Remove	1.7
396	Red alder *Alnus rubra*	21					Level 1 assessment. Within the proposed tennis court.	Remove	1.3
397	Black cottonwood *Populus trichocarpa*	63					Level 1 assessment. Within the proposed tennis court.	Remove	3.8
398	Black cottonwood *Populus trichocarpa*	62					Level 1 assessment. Within the proposed tennis court.	Remove	3.7
399	Black cottonwood *Populus trichocarpa*	27					Level 1 assessment. Within the proposed tennis court.	Remove	1.6
400	Bitter cherry *Prunus emarginata*	16					Level 1 assessment. Within the proposed tennis court.	Remove	1.0
601-HP	Cascara *Rhanmnus purshiana*	10	4	50	8	Fair	Growing on mound with 264.	Retain	0.6
602-HP	Black cottonwood *Populus trichocarpa*	35	6	60	25	Fair	Crook at 7 m.	Remove	2.1

TREE INVENTORY ASSESSMENT

603-HP	Bitter cherry *Prunus emarginata*	29	4.5	40	14	Fair	Some dead lower branches. Gummosis.	Retain	1.7
604-HP	Red alder *Alnus rubra*	10	3.5	60	9	Good		Retain	0.6
605-HP	Pin oak *Quercus palustris*	27	5	50	14	Good		Retain	1.6
606-HP	Pin oak *Quercus palustris*	36	6	50	15	Good		Retain	2.2
607	Pin oak *Quercus palustris*	43	5.5	50	16	Good	Some damage to surface roots.	Retain	2.6
608	Pin oak *Quercus palustris*	49	6.5	50	18	Good	Some damage to surface roots.	Retain	2.9
609	Pin oak *Quercus palustris*	36	5	40	13	Good	Basal wound.	Retain	2.2
610	Pin oak *Quercus palustris*	31	6	40	13	Good	Codominant at 6 m. Some damaged roots.	Retain	1.9
611	Pin oak *Quercus palustris*	42	6.5	50	15	Good	Previous construction work 2.5 m to east.	Retain	2.5
612	Serbian spruce *Picea omorika*	47 (31, 16)	3	80	12	Good	Subdominant stem at base. 1 other stem previously removed.	Retain	2.8
613	Serbian spruce *Picea omorika*	32	2.5	90	12	Good	Some damaged surface roots.	Retain	1.9
614	Serbian spruce *Picea omorika*	30	3	80	12	Good		Retain	1.8
615	Serbian spruce *Picea omorika*	51 (26, 25, 21)	3.5	80	12	Good	3 stems from base.	Retain	3.1

TREE INVENTORY ASSESSMENT

616	Honey locust *Gleditsia triacanthos*	16	3	60	9	Good		Retain	1.0
617-HP	Serbian spruce *Picea omorika*	24	2.5	80	12	Good		Retain	1.4
618-HP	Serbian spruce *Picea omorika*	31	3.5	80	13	Good		Retain	1.9
619	Honey locust *Gleditsia triacanthos*	17	3.5	50	6	Good		Retain	1.0
620	Honey locust *Gleditsia triacanthos*	23	5	50	7	Good		Retain	1.4
621	Honey locust *Gleditsia triacanthos*	22	5	50	7	Good		Retain	1.3
622	Honey locust *Gleditsia triacanthos*	20	5	50	7	Good		Retain	1.2
623	Honey locust *Gleditsia triacanthos*	19	5	50	7	Good		Retain	1.1
624	Honey locust *Gleditsia triacanthos*	19	4.5	50	7	Good		Retain	1.1
625	Honey locust *Gleditsia triacanthos*	21	5	60	7	Good		Retain	1.3
626	Honey locust *Gleditsia triacanthos*	26	7	60	8	Good	Reaches south over fence into tennis courts.	Retain	1.6
627	Honey locust *Gleditsia triacanthos*	25	6	50	7	Good		Retain	1.5
628	Honey locust *Gleditsia triacanthos*	22	5.5	60	8	Good		Retain	1.3
629	Honey locust *Gleditsia triacanthos*	25	6	60	8	Good		Retain	1.5

TREE INVENTORY ASSESSMENT

630	Honey locust *Gleditsia triacanthos*	23	5.5	60	7	Good		Retain	1.4
631	Honey locust *Gleditsia triacanthos*	18	4.5	50	6	Good		Retain	1.1
632	Honey locust *Gleditsia triacanthos*	16	4.5	50	7	Good		Retain	1.0
633	Honey locust *Gleditsia triacanthos*	20	5	50	8	Good		Retain	1.2
634	Honey locust *Gleditsia triacanthos*	22	5	40	8	Good	Codominant at 2 m.	Retain	1.3
998-HP	Bitter cherry *Prunus emarginata*	9	3	60	6	Good	Reaches northwest.	Retain	0.5
999-HP	Bitter cherry *Prunus emarginata*	22	4.5	70	13	Good	Growing from base of 103.	Retain	1.3
1000-HP	Bigleaf maple *Acer macrophyllum*	12	4	60	10	Good	Reaches northwest.	Retain	0.7
NT1-HP	Red oak *Quercus rubra*	39	7.0	60	14	Good	Some dead branches.	Retain	2.3
NT2-HP	Douglas fir *Pseudotsuga menziesii*	44	5.5	60	12	Good	Some resinosis. Large surface roots.	Retain	2.6
NT3-HP	Bitter cherry *Prunus emarginata*	12					Level 1 assessment. Within the proposed tennis court.	Remove	0.7
NT4-HP	Bitter cherry *Prunus emarginata*	11					Level 1 assessment. Within the proposed tennis court.	Remove	0.7
NT5-HP	Western redcedar *Thuja plicata*	12					Level 1 assessment. Within the proposed tennis court.	Remove	0.7
NT6-HP	Black cottonwood *Populus trichocarpa*	9					Level 1 assessment. Within the proposed tennis court.	Remove	0.5

TREE INVENTORY ASSESSMENT

NT7-HP	Paper birch *Betula papyrifera*	10					Level 1 assessment. Within the proposed tennis court.	Remove	0.6
NT8-HP	Paper birch *Betula papyrifera*	10					Level 1 assessment. Within the proposed tennis court.	Remove	0.6
NT9-HP	Paper birch *Betula papyrifera*	9					Level 1 assessment. Within the proposed tennis court.	Remove	0.5
NT10-HP	Bitter cherry *Prunus emarginata*	9					Level 1 assessment. Within the proposed tennis court.	Remove	0.5
NT11-HP	Western redcedar *Thuja plicata*	11 (6, 5)					Level 1 assessment. Within the proposed tennis court.	Remove	0.7
NT12-HP	Paper birch *Betula papyrifera*	9	9				Level 1 assessment. Within the proposed tennis court.	Remove	0.5
NT13-HP	Red alder *Alnus rubra*	37					Level 1 assessment. Within the proposed tennis court.	Remove	2.2
NT14-HP	Black cottonwood *Populus trichocarpa*	14				Poor	Almost dead. Level 1 assessment. Within the proposed tennis court.	Remove	0.8
NT15	Red alder *Alnus rubra*	14			7	Dead	Dead standing. Level 1 assessment. Within the proposed tennis court.	Remove	0.8
NT16-HP	Western redcedar *Thuja plicata*	10					Level 1 assessment. Within the proposed tennis court.	Remove	0.6
NT17	Western redcedar *Thuja plicata*	9					Level 1 assessment. Within the proposed tennis court.	Remove	0.5
NT18-HP	Paper birch *Betula papyrifera*	12	2.5	50	8	Good	Growing with 10.	Remove	0.7
NT19-HP	Red alder *Alnus rubra*	19			12	Dead	At base of tree 17.	Remove	1.1
NT20-HP	Red alder *Alnus rubra*	20			9	Dead	Slough bark.	Remove	1.2

TREE INVENTORY ASSESSMENT

NT21-HP	Deciduous	20			11	Dead	Leans on 218.	Remove	1.2
NT22-HP	Red alder *Alnus rubra*	12	6	70	5	Poor	Leans heavily northwest.	Retain	0.7
NT23	Serbian spruce *Picea omorika*	20	2.5	80	7	Good	In tree barrier.	Retain	1.2
NT24	Honey locust *Gleditsia triacanthos*	13	2.5	50	6	Fair	Small basal wounds.	Retain	0.8
NT25-HP	Honey locust *Gleditsia triacanthos*	10	3	50	6	Good		Retain	0.6
NT26	Honey locust *Gleditsia triacanthos*	13	3	50	6	Good		Retain	0.8
NT27-HP	Raywood ash *Fraxinus angustifolia* 'Raywood'	7	1	50	5	Good	New planting.	Retain	0.4
NT28-HP	Raywood ash *Fraxinus angustifolia* 'Raywood'	7	1.5	60	6	Good	New planting.	Retain	0.4
NT29-HP	Western redcedar *Thuja plicata*	48	5	100	14	Good	Subdominant stem at base.	Retain	2.9
NT30-HP	Western redcedar *Thuja plicata*	35	4	100	11	Good		Retain	2.1
NT31-HP	Western redcedar *Thuja plicata*	31	4.5	100	11	Good		Retain	1.9
NT32-HP	Honey locust *Gleditsia triacanthos*	7	2	50	6	Good	Small trunk wounds.	Retain	0.4
NT33-HP	Japanese maple *Acer palmatum*	21	5	80	7	Good	Diameter below union at 0.5 m. One dead branch.	Retain	1.3

TREE INVENTORY ASSESSMENT

NT34-HP	Japanese maple *Acer palmatum*	25	6	80	6	Good		Retain	1.5
NT35-HP	Red maple *Acer rubrum*	46	5.0	60	12	Fair	Codominant at 2 m. Dead broken top. Recent root damage from road works.	Retain	2.8
NT36-HP	Red maple *Acer rubrum*	48	5.5	60	12	Fair	Dead top.	Retain	2.9

Table 2 : Summary of Tree Preservation by Tree Species

Tree Species	Existing	Remove	Retain
Deciduous Trees			
Bigleaf maple	7	4	3
Bitter cherry	24	15	9
Black cottonwood	118	91	27
Cappadocian maple	1	0	1
Cascara	7	3	4
Crabapple	1	0	1
European birch	4	4	0
European mountain ash	2	2	0
Flowering cherry	4	4	0
Honey locust	22	1	21
Japanese maple	2	0	2
Linden	8	6	2
Norway maple	8	2	6
Pacific dogwood	1	0	1
Paper birch	14	11	3
Pin oak	18	0	18
Raywood ash	2	0	2
Red alder	105	77	28
Red maple	5	0	5
Red oak	1	0	1
Vine maple	2	1	1
Dead deciduous tree	20	17	3*

Table 2 : Summary of Tree Preservation by Tree Species (Continued)

Tree Species	Existing	Remove	Retain
Coniferous Trees			
Austrian pine	4	3	1
Douglas fir	14	7	7
Eastern white pine	4	3	1
Norway spruce	2	1	1
Serbian spruce	13	0	13
Sitka spruce	2	2	0
Western hemlock	2	2	0
Western redcedar	27	19	8
Yellow cedar	3	0	3
Dead coniferous tree	1	1	0
Total Trees	448	276	172

**=Tree #103, a dead black cottonwood, is recommended to be wildlifed. This tree is shown as retained in the summary table.*

Tree #40 is an English holly, which is an invasive species, and is therefore excluded from the tree summary table and the replacement requirement calculation.

Table 3 : Summary of Tree Preservation by Diameter Class

Diameter Class	Existing	Remove	Retain
<9.9 cm	11	6	5
10 cm - 19.9 cm	131	92	39
20 cm - 29.9 cm	122	73	49
30 cm - 39.9 cm	83	48	35
40 cm - 49.9 cm	41	17	24
50 cm - 59.9 cm	27	16	11
60 cm - 69.9 cm	19	13	6
70 cm - 79.9 cm	4	4	0
80 cm - 89.9 cm	3	2	1
90 cm - 99.9 cm	4	3	1
100 cm or more	3	2	1
Total Trees	448	276	172

Tree #40 is an English holly, which is an invasive species, and is therefore excluded from the tree summary table and the replacement requirement calculation.

SPECIES RECOMMENDATION FOR REPLACEMENT TREES

A list of replacement tree recommendations are provided in the *City of Coquitlam Standards for Tree Cutting Permit Applicants*.

The replacement trees must meet specific criteria, including a minimum caliper of 5-6 cm for deciduous trees or a minimum height of 2-3 m for coniferous trees. As advised by Coquitlam's Tree Resource Guide, recommended replacement trees are categorized into three classes (Class A: Large species, Class B: Medium Species, Class C: Small deciduous species), and can be found in Appendix D. The list can act as a guideline, and the selected species should be appropriate in size and type for the location. The replacement tree requirement for private property in the City of Coquitlam is calculated based on lot size.

VDZ+A recommends a 1:1 replacement ratio for every tree recommended for removal, including dead trees, to compensate for the loss of existing canopy. Therefore, we recommend 277 replacement trees to be planted on site or elsewhere.

FIG. 2 - Overview of tree #73.

FIG. 3 - Overview of trees #75, #318, and #74 (L to R).

FIG. 4 - Overview of trees #80, #79, #97, and #95 (L to R).

FIG. 5 - Overview of tree #86 with equipment in Critical Root Zone.

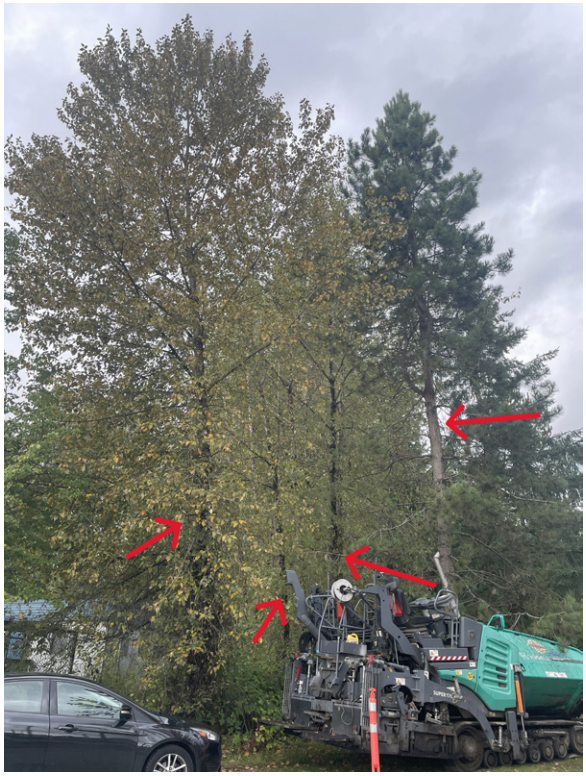


FIG. 6 - Overview of trees #86, #93, #87, and #95 (L to R).

FIG. 7 - Overview of trees #97, #93, #85, #88, and #81 (L to R).

FIG. 8 - Overview of tree #94.

FIG. 9 - Overview of trees #94 and #95 (R to L).

FIG. 10 - Overview of trees #100, #1, and #48 (L to R).

FIG. 11 - Overview of tree #103 with trunk cavities.

FIG. 12 - Overview of trees #122, #226, #247, #269 (F to B). Looking east along Trevor Wingrove Way.

FIG. 13 - Overview of tree #125 with extensive decay and horizontal crack.

FIG. 14 - Overview of trees #126, #165, #133, #188, #122, #126, #247 and #269 on the north side of Trevor Wingrove Way (L to R).

FIG. 15 - Overview of trees #128 and #171 (L to R).

FIG. 16 - Overview of trees #146 with root previous pruned for sidewalk.

FIG. 17 - Overview of trees #146, #133, #187, and #188 (L to R). Looking north.

FIG. 18 - Overview of trees #161, #162, #132, #101, and #146 (L to R).

FIG. 19 - Overview of trees #165 and #126 (L to R).

FIG. 20 - Overview of trees #165, #146, #133, and #187 (L to R).

FIG. 21 - Overview of tree #187. Looking southwest.

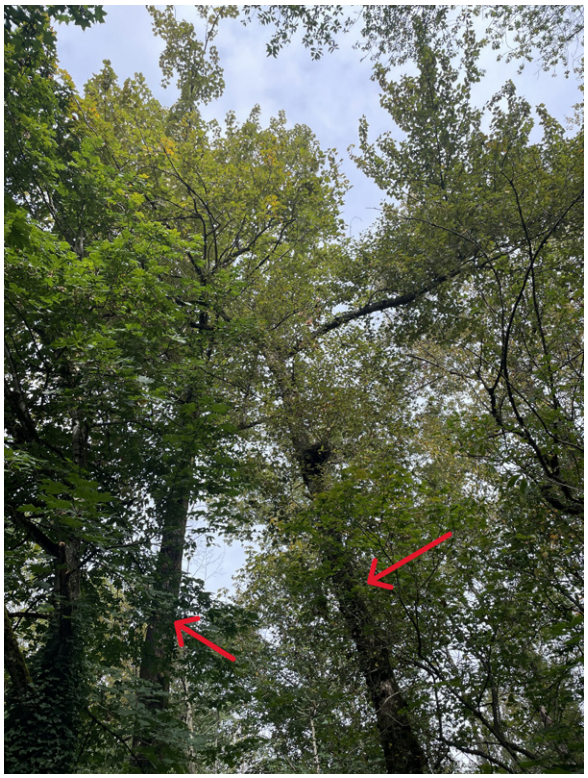


FIG. 22 - Overview of trees #200 and #6 (L to R).

FIG. 23 - Overview of tree #236 with root uplifting concrete.

FIG. 24 - Overview of trees #236, #322, #171, and #110 (L to R). Looking across work yard.

FIG. 25 - Overview of tree #236.

FIG. 26 - Overview of tree #239.

FIG. 27 - Overview of trees #248, #200, and #6 (L to R).

FIG. 28 - Overview of trees #268 and #90 (L to R).

FIG. 29 - Overview of tree #269 with previous disturbance in blvd.

FIG. 30 - Overview of trees #274, #201, #NT2, and #254 (L to R).

FIG. 31 - Overview of trees #275, #231, #217, and #205 (L to R).

FIG. 32 - Overview of trees #318 and #365 (L to R). Looking south.

FIG. 33 - Overview of trees #336, #370, #73, #NT38, and #NT37 (L to R).

FIG. 34 - Overview of trees #349, #325, and #385 (L to R).

FIG. 35 - Overview of trees #349, #325, #385, and #378 (L to R). Looking north.

FIG. 36 - Overview of trees #354 (L to R).

FIG. 37 - Overview of trees #356, #321, #369, and #175 (L to R). Looking west.

FIG. 38 - Overview of trees #365, #394, and #397 (L to R). Looking south down existing pathway.

FIG. 39 - Overview of trees #370 and #336 (L to R).

FIG. 40 - Overview of trees #621-#627 (R to L).

FIG. 41 - Japanese Knotweed was found onsite.

FIG. 42 - Overview of natural stand, looking south.

FIG. 43 - Overview of tree #NT35 with dead top.

FIG. 44 - Overview of tree #NT35. Looking north.

FIG. 45 - Overview of tree #NT36 with dieback at top.

FIG. 46 - Overview of trees #NT37 and #NT38 (R to L).

FIG. 47 - Overview of trees north of existing work yard.

FIG. 48 - Overview of trees #607 and #608 on south side of Trevor Wingrove Way (R to L).

FIG. 49 - Overview of tree #608.

FIG. 50 - Overview of tree #609 with trunk wound.

FIG. 51 - Overview of trees #610, #612, and #613 (L to R).

FIG. 52 - Overview of trees #611 and #NT23 (L to R).

FIG. 53 - Overview of trees #612.

FIG. 54 - Overview of trees #613-#615 (R to L). Looking north.

FIG. 55 - Overview of trees #616-#618 (R to L).

FIG. 56 - Overview of trees #612-#618 (R to L). Looking east.

FIG. 57 - Overview of trees #618-#616, NT24, #607, and #608 (L to R).

FIG. 58 - Overview of tree #626 with crown reaching over fence.

FIG. 59 - Overview of trees #627 and #629 (L to R).

FIG. 60 - Overview of tree #631.

FIG. 61 - Overview of tree #632.

FIG. 62 - Overview of tree #NT25 and #NT26 (L to R).

FIG. 63 - Overview of trees #NT27 and #NT28 (R to L).

FIG. 64 - Overview of trees #NT29 and #NT30 (R to L).

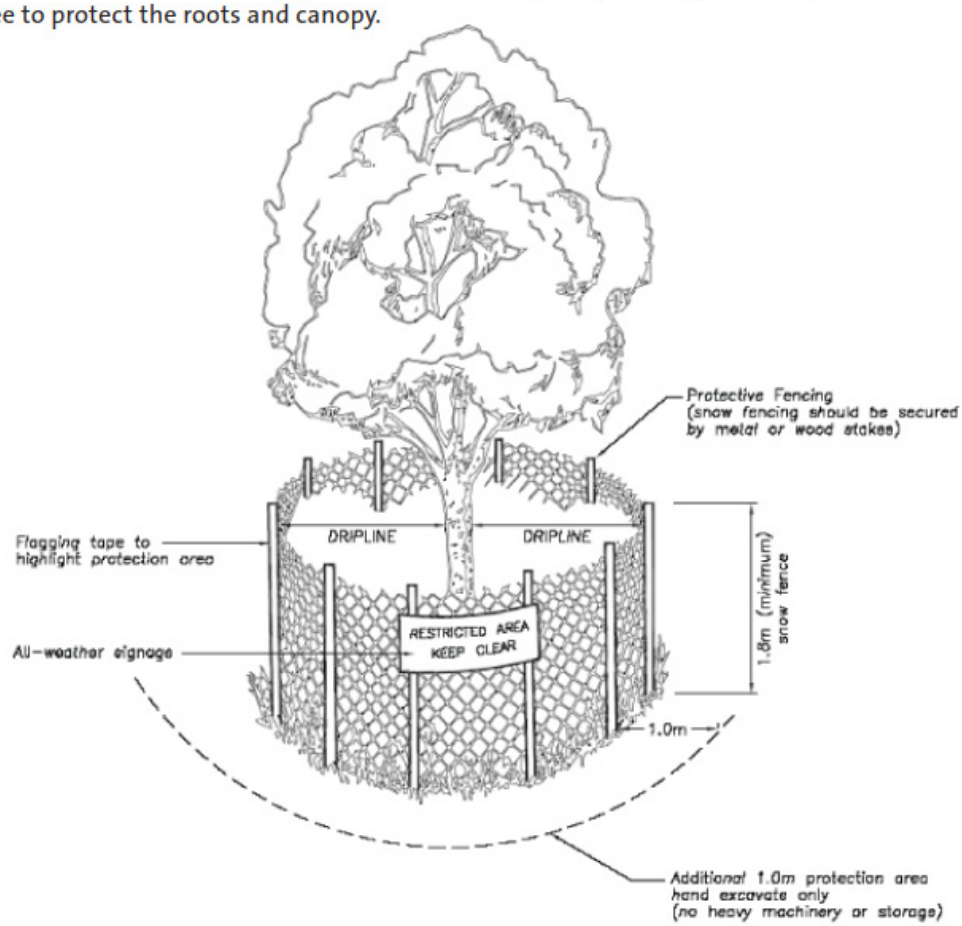
FIG. 65 - Overview of trees #NT33 and #NT34 (R to L).

Specifications for Tree Protection Barriers - SCHEDULE A

TREE PROTECTION

How do I safely retain trees on, or adjacent to, the property?

Prior to construction activity you should erect temporary fencing at the dripline of the tree to protect the roots and canopy.



The City disclaims any liability arising from the use of this guide. This information is provided only as a guide for public use and convenience. If any contradiction exists between this document and relevant City Bylaws, Codes, or Policies, the text of the Bylaws, Codes or Policies shall be the legal authority.

FIG. 66 - Tree Protection Barrier Specification.

General Requirements and Limitations for Operations Within the Tree Protection Zone

- The Contractor shall not engage in any construction activity within the Tree Protection Zone (TPZ) without the approval of the Project Arborist including: operating, moving or storing equipment; storing supplies or materials; locating temporary facilities including trailers or portable toilets and shall not permit employees to traverse the area to access adjacent areas of the project or use the area for lunch or any other work breaks. Permitted activity, if any, within the Tree Protection Zone maybe indicated on the drawings along with any required remedial activity as listed below.
- In the event that construction activity is unavoidable within the Tree Protection Zone, notify the Project Arborist and submit a detailed written plan of action for approval. The plan shall include: a statement detailing the reason for the activity including why other areas are not suited; a description of the proposed activity; the time period for the activity, and a list of remedial actions that will reduce the impact on the Tree Protection Zone from the activity. Remedial actions shall include but shall not be limited to the following:
- In general, demolition and excavation within the drip line of trees and shrubs shall proceed with extreme care either by the use of hand tools, directional boring and/or Air Spade. If any excavation work is required within the Tree Protection Zone (TPZ), the Project Arborist must be present during excavation, and a trench should be 'hand dug' to a depth of 60 cm outside the Drip Line, to uncover any potential roots. The Project Arborist should cleanly prune roots and recommend the appropriate treatment for any structural roots encountered.
- Knife excavation where indicated or with other low impact equipment that will not cause damage to the tree, roots soil.
- When encountered, exposed roots, 1 inches and larger in diameter shall be worked around in a manner that does not break the outer layer of the root surface (bark). These roots shall be covered in Wood Chips and shall be maintained above permanent wilt point at all times. Roots one inch and larger in diameter shall not be cut without the approval of the Project Arborist. Excavation shall be tunnelled under these roots without cutting them. In the areas where roots are encountered, work shall be performed and scheduled to close excavations as quickly as possible over exposed roots.
- Tree branches that interfere with the construction may be tied back or pruned to clear only to the point necessary to complete the work. Other branches shall only be RETAINED when specifically indicated by the Project Arborist. Tying back or trimming of all branches and the cutting of roots shall be in accordance with accepted arboriculture practices (ANSI A300, part 8) and be performed under supervision of the Project Arborist.
- Do not permit foot traffic, scaffolding or the storage of materials within the Tree Protection Zone.
- Protect the Tree Protection Zone at all times from compaction of the soil; damage of any kind to trunks, bark, branches, leaves and roots of all plants; and contamination of the soil, bark or leaves with construction materials, debris, silt, fuels, oils, and any chemicals substance. Notify the Project Arborist of any spills, compaction or damage and take corrective action immediately using methods approved by the Project Arborist

GLOSSARY OF KEY TERMS *(As Written in the Coquitlam Tree Management Bylaw)*

Accessory Building: a subordinate building located on the same lot as the principal building as defined by the *Zoning Bylaw.*

Building Envelope: that part of a lot on which the principal building, an addition to a building, or *accessory building* may be sited under the setback requirements of the *Zoning Bylaw*, or any successor bylaw, as varied by any variances to a setback distance approved by Development Variance Permit, Development Permit or the Board of Variance.

City Arborist: an employee of the City of Coquitlam certified with the International Society of Arboriculture and any successor in title to that position.

City Standards: the City of Coquitlam Tree Resource Guide Book.

Council: the Council of the City of Coquitlam.

Cut Down: to fell, remove or alter a *protected tree* or *protected tree* part, including roots, such that the *protected tree* is no longer considered biologically or structurally viable by the *General Manager.*

Damage: to alter a *protected tree* or its growing environment in a manner detrimental to its present and future health and development.

Development Application: an application to the City for Subdivision, Rezoning or Development Permit.

General Manager: means the *General Manager* Leisure and Parks Services for the City of Coquitlam and any successor in title to that position, or designee.

Geotechnical Engineer: a qualified professional who is a registered member of the Association of Professional Engineers and Geoscientists of British Columbia and who has geotechnical or geoscientific expertise in slope hazard assessment and management.

Neighbourhood Plan Area: the smallest geographic area for which land use plans are developed. The Neighbourhood Plans, their boundaries and supporting policies are contained within the Citywide Official Community Plan.

Occupier: the occupier of property on which *protected trees* are located.

Owner: the owner of property on which *protected trees* are located.

Protected tree: woody plant with roots and branches that has a trunk DBH of 30cm or greater, as well as:

(a) any living, erect, woody plant that is 20 centimetres or more in diameter measured 1.4 metres from the base of the tree stem, or on a *steep slope,* measured 5 or more metres in height; or

(b) a *replacement tree,* planted in accordance with current BCSLA/BCNTA Landscape Standards; or

(c) a tree planted or retained as a requirement of a Subdivision Application, Development Permit, Development Variance Permit, Building Permit, Demolition Permit or Tree Cutting Permit.

(d) Multi stem trees are considered of protected size if the largest two stems Diameter at breast Height (1.4m) DBH added together are >20cm DBH.

Pruning: to remove one or more branches from a tree in a manner consistent with the International Society of Arboriculture pruning standards.

Qualified Tree Expert: a person who has graduated from an accredited college or university with a diploma or degree in Urban Forestry, Arboriculture or the equivalent and satisfies at least one of the following

requirements:

(i) is certified with either the International Society of Arboricutlure, or the Industry Training Authority of British Columbia;

(ii) is currently accredited as a consulting arborist with the American Society of Consulting Arborists;

(c) is a Registered Professional Forester (R.P.F.) as recognized by the Association of BC Forest Professionals.

Replacement Tree: a tree required to be planted to replace a tree cut, removed or damaged in accordance with this Bylaw.

Streamside Protection and Enhancement Area (SPEA): a streamside protection and enhancement area, as described in the Riparian Areas Regulation, Part 5, Section 523 of the *Zoning Bylaw.*

Steep Slope: any part of a parcel of land where the grade of the incline is 20 degrees (36 percent) or greater.

Tree Cutting Permit: a permit as issued under this Bylaw, and includes any requirements under Part 3.

Tree Risk Assessment: an assessment of risk relating to tree failure prepared by a *Qualified Tree Expert.*

Zoning Bylaw: the City of Coquitlam Zoning Bylaw No. 3000, 1996, as amended or superseded from time to time.

Class A tree list

Botanical Name	Common Name	Minimum caliper size
Large Deciduous species		
Acer macrophyllum	Bigleaf Maple	6 cm
Acer platanoides	Norway Maple	6 cm
Acer pseudoplatanus	Sycamore Maple	6 cm
Acer saccharinum	Silver Maple	6 cm
Acer saccharum	Sugar Maple	6 cm
Aesculus hippocastanum	Common Horsechestnut	6 cm
Carya cordiformis	Bitternut Hickory	6 cm
Carya ovalis	Red Hickory	6 cm
Carya ovata	Shagbark Hickory	6 cm
Carpinus betulus	European Hornbeam	6 cm
Catalpa bignoniodes	Common Catalpa	6 cm
Catalpa speciosa	Northern Catalpa	6 cm
Fagus crenata	Japanese Beech	6 cm
Fagus grandifolia	American Beech	6 cm
Fagus sylvatica	European Beech	6 cm
Fraxinus americana	White Ash	6 cm
Fraxinus excelsior	European Ash	6 cm
Fraxinus nigra	Black Ash	6 cm
Fraxinus ornus	Flowering Ash	6 cm
Fraxinus oxycarpa	Claret Ash	6 cm
Ginkgo biloba	Ginkgo	6 cm
Liquidambar styraciflua	American Sweetgum	6 cm
Liriodendron tulipifera	Tulip Tree	6 cm
Notofagus antartica	Antartic Beech	6 cm
Paulownia tomentosa	Empress Tree	6 cm
Platanus occidentalis	American Sycamore	6 cm
Platanus orientalis	Oriental Plane Tree	6 cm
Platanus x acerfolia	London Plane Tree	6 cm
Quercus coccinea	Scarlet Oak	6 cm
Quercus ellipsoidalis	Northern Pin Oak	6 cm
Quercus garryana	Garry Oak	6 cm
Quercus macrocarpa	Bur Oak	6 cm
Quercus palustris	Pin Oak	6 cm
Quercus rubra	Red Oak	6 cm
Quercus shumardii	Shumard Oak	6 cm
Robinia ambigua	Pink Locust	6 cm
Robinia pseudoacacia 'frisia'	Golden Locust	6 cm
Tilia euchlora	Crimean Linden	6 cm
Tilia cordata	Little Leaf Linden	6 cm
Tilia tomentosa	Silver Linden	6 cm
Ulmus americana 'Brandon'	Brandon Elm	6 cm
Ulmus 'Morton Glossy'	Triumph Elm	6 cm
Zelkova serrata	Japanese Zelkova	6 cm
Large Conifer Species		
Abies amabilis	Pacific Silver Fir	3 metres
Abies balsamea	Balsam Fir	3 metres
Abies concolor	White Fir	3 metres
Abies fraseri	Fraser's Fir	3 metres
Abies grandis	Grand Fir	3 metres
Abies lasiocarpa	Alpine Fir	3 metres
Abies magnifica	Red Fir	3 metres
Abies nordmanniana	Nordmann Fir	3 metres
Abies pinsapo	Spanish Fir	3 metres
Abies procera	Noble Fir	3 metres
Araucaria araucana	Monkey Puzzle Tree	3 metres
Calocedrus decurrens	Incense Cedar	3 metres
Cedrus atlantica	Atlas Cedar	3 metres
Cedrus deodara	Deodar Cedar	3 metres
Cedrus libani	Cedar of Lebanon	3 metres
Chamaecyparis lawsoniana	Lawson Cypress	3 metres
Chamaecyparis nootkatensis	Nootka Cypress	3 metres
Cryptomeria japonica	Japanese Cedar	3 metres
Larix decidua	European Larch	3 metres
Larix occidentalis	Western Larch	3 metres
Metasequoia glyptostroboides	Dawn Redwood	3 metres
Picea abies	Norway Spruce	3 metres
Picea glauca	White Spruce	3 metres
Picea sitchensis	Sitka Spruce	3 metres
Pinus monticola	Western White Pine	3 metres
Pinus ponderosa	Ponderosa Pine	3 metres
Pinus radiata	Monterey Pine	3 metres
Pinus resinosa	Red Pine	3 metres
Pinus strobus	Eastern White Pine	3 metres
Pinus wallichiana	Himalayan White Pine	3 metres
Pseudotsuga menziesii	Douglas Fir	3 metres
Sequoia sempervirens	Redwood	3 metres
Sequoiadendron giganteum	Giant Sequoia	3 metres
Thuja plicata	Western Red Cedar	3 metres
Tsuga heterophylla	Western Hemlock	3 metres

Class B tree list

Botanical Name	Common Name	Minimum caliper size
Medium Deciduous Species		
Acer cappadocicum	Coliseum Maple	5 cm
Acer davidii	Snakebark Maple	5 cm
Acer glabrum	Douglas Maple	5 cm
Acer miyabei	Miyabei Maple	5 cm
Acer negundo	Manitoba Maple	5 cm
Acer rubrum 'Armstrong'	Armstrong Maple	5 cm
Acer rubrum 'Autumn Flame'	Autumn Flame Maple	5 cm
Acer rubrum 'Bowhall'	Bowhall Maple	5 cm
Acer rubrum 'Morgan'	Morgan Maple	5 cm
Acer rubrum 'October Glory'	October Glory Maple	5 cm

Class B tree list continued

Acer rubrum 'Red Sunset'	Red Sunset Maple	5 cm
Acer rubrum 'Scanlon'	Scanlon Maple	5 cm
Acer rubrum 'Scarlet Sentinel'	Scarlet Sentinel Maple	5 cm
Acer truncatum	Shantung Maple	5 cm
Aesculus x carnea	Red Horsechestnut	5 cm
Albizia julibrissin	Silk Tree	5 cm
Betula alba-sinensis septentrionalis	Chinese White Birch	6 cm
Betula jacquemontii	Himalayan Birch	6 cm
Betula nigra	River Birch	6 cm
Carpinus betulus 'Fastigiata'	Pyramidal European Hornbeam	5 cm
Celtis occidentalis	Hackberry	5 cm
Cercidiphyllum japonicum	Katsura Tree	5 cm
Cercis canadensis	Eastern Redbud	5 cm
Cornus chinensis	Chinese Dogwood	5 cm
Cornus controversa	Giant Dogwood	5 cm
Cornus mas	Cornelian Cherry	3 metres
Cornus nuttallii	Pacific Dogwood	6 cm
Crataegus lavallei	Lavalle Hawthorne	5 cm
Davidia involucrata	Dove Tree	6 cm
Fagus sylvatica 'Dawyck'	Dawyck Beech	5 cm
Fagus sylvatica 'Purple Fountain'	Purple Fountain Beech	5 cm
Gleditsia triacanthos	Honey Locust	6 cm
Gleditsia triacanthos inermis	Thornless Honey Locust	6 cm
Gymnocladus dioica	Kentucky Coffeebean	5 cm
Halesia monticola	Mountain Silverbell	5 cm
Juglans cinerea	White Walnut	5 cm
Juglans regia	English Walnut	5 cm
Koelreuteria paniculata	Golden Rain Tree	5 cm
Laburnum watereri	Golden Chain Tree	5 cm
Liriodendron chinense	Chinese Tuliptree	5 cm
Magnolia acuminata	Cucumber Tree	5 cm
Magnolia cordata	Yellow Cucumber Tree	5 cm
Magnolia grandiflora	Southern Magnolia	5 cm
Magnolia kobus stellata	Star Magnolia	3 metres
Quercus muehlenbergii	Chinquapin Oak	5 cm
Prunus sargentii	Sargent Flowering Cherry	5 cm
Prunus serotina	Black Cherry	5 cm
Prunus serrulata	Japanese Flowering Cherry	5 cm

Prunus subhirtella	Higan Cherry	5 cm
Prunus yedoensis	Yoshino Cherry	5 cm
Pyrus calleryana	Callery Pear	5 cm
Quercus acutissima	Sawtooth Oak	5 cm
Salix alba	White Willow	5 cm
Salix babylonica	Weeping Willow	5 cm
Sophora japonica	Japanese Pagoda Tree	5 cm

Medium Conifer Species		
Chamaecyparis obtusa	Hinoki False Cypress	2 metres
Chamaecyparis pisifera	Sawara False Cypress	2 metres
Picea omorika	Serbian Spruce	2 metres
Picea pungens	Colorado Spruce	2 metres
Pinus contorta	Shore Pine	2 metres
Pinus densiflora pendula	Weeping Red Pine	2 metres
Pinus nigra	Austrian Pine	2 metres
Pinus sylvestris	Scotch Pine	2 metres
Pinus thunbergii	Japanese Black Pine	2 metres
Sciadopitys verticillata	Umbrella Pine	2 metres

Class C tree list

Botanical Name	Common Name	Minimum caliper size
Small Deciduous Species		
Aralia elata	Japanese Angelica Tree	5 cm
Acer campestre	Hedge Maple	5 cm
Acer capillipes	Stripebark Maple	5 cm
Acer circinatum	Vine Maple	2 metres
Acer ginnala	Amur Maple	5 cm
Acer griseum	Paperbark Maple	5 cm
Acer palmatum	Japanese Maple	5 cm
Amelanchier grandiflora	Serviceberry	2 metres
Betula pendula	Weeping Birch	5 cm
Cornus alternifolia	Alternate Leaf Dogwood	5 cm
Carpinus japonica	Japanese Hornbeam	5 cm
Cladastrus lutea	American Yellowood	5 cm
Cornus 'Eddie's White Wonder'	Eddie's White Wonder	5 cm
Cornus florida	Flowering Dogwood	5 cm
Cornus kousa	Kousa Dogwood	5 cm
Corylus maxima	Giant Filbert	2 metres
Halesia carolina	Carolina Silverbell	5 cm
Maackia amurensis	Amur Maackia	5 cm
Magnolia 'Caerhay's Belle'	Caerhay's Belle Magnolia	5 cm
Magnolia denudata	Yulan Magnolia	5 cm
Magnolia 'Elizabeth'	Elizabeth Magnolia	5 cm
Magnolia 'Forest Pink'	Forest Pink Magnolia	5 cm
Magnolia 'Galaxy'	Galaxy Magnolia	5 cm
Malus species	Crabapple	5 cm
Morus alba	White Mulberry	5 cm
Nyssa sylvatica	Sour Gum Tree	5 cm
Oxydendron arboreum	Sorrel Tree	5 cm
Parrotia persica	Persian Parrotia	5 cm
Phellodendron amurense	Amur Corktree	5 cm
Ptelea trifoliata	Common Hoptree	5 cm
Salix babylonica 'tortuosa'	Corkscrew Willow	5 cm
Stewartia monadelpha	Tall Stewartia	5 cm
Stewartia pseudocamillia	Japanese Stewartia	5 cm
Styrax japonica	Japanese Snowbell	5 cm
Styrax obassia	Fragrant Snowbell	5 cm
Syringa pekinensis	Pekin Lilac	5 cm
Syringa reticulate 'Ivory Silk'	Ivory Silk Lilac	5 cm

Example of Coronet Cuts on Wildlife Trees

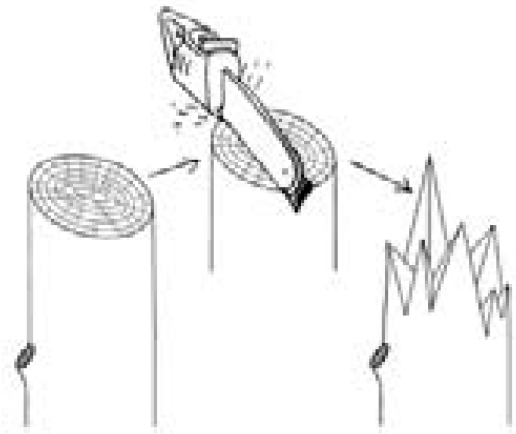


FIG. 67 - Creation of coronet cuts, following the shortening of a stem or branch. (Image source: Ancient and other veteran trees: further guidance on management. David Lonsdale (Ed.))

FIG. 68 - Coronet cuts on a dead tree, reduced in height to a monolith to prolong safe retention. (Image source: Ancient and other veteran trees: further guidance on management. David Lonsdale (Ed.))

LIMITATIONS

This report is valid for the day the trees were reviewed. Trees are living things and as such are subject to change time. This report is not to be re-printed, copied, published, or distributed without prior approval by VDZ + A Consulting Inc.

Sketches, diagrams, and photographs contained in this report being intended as visual aids, should not be constructed as engineering reports or legal surveys. Only the subject tree(s) was inspected and no others, under the standards and parameters of the City of Coquitlam Tree Management Bylaw No. 4091, 2010. This report does not imply or in any other way infer that other trees on this site or near this site are sound and healthy.

The tendency of trees or parts of trees to fall due to environmental conditions and internal problems are unpredictable. Defects are often hidden within the tree or underground. The project arborist has endeavored to use their skill, education, and judgement to assess the potential for failure, with reasonable methods and detail. It is the owner's responsibility to maintain the trees and inspect the trees to reasonable standards and to carry out recommendations for mitigation suggested in this report.

If you have any further questions or concerns regarding this report, please contact the undersigned.

Sincerely,

D. Glyn Romaine, VDZ+A Consulting Inc.

ISA Certified Arborist PN-7929A

ISA Tree Risk Assessment Qualification

(604) 841-9977

TREE MANAGEMENT PLAN

See attached Tree Management Plan

Original size: 24x36

Print as 11x17 for foldout

Knotweed was found onsite. The boundary of the knotweed shown in the TMP is approximate. Refer to the Knotweed Management Plan prepared by DHC for the actual knotweed boundary and for detailed instructions on land clearing and tree removal in this area.

Contractor to meet on site with DHC to clearly identify the knotweed area and review spread prevention measures.

Only surface activities permitted in knotweed area. Removal of above ground vegetation must avoid soil disturbance. Grubbing and below ground vegetation removal to be done in coordination with excavation.

The Tree Protection Barrier along the eastern boundary of the remaining forest stand is to be installed after initial felling and prior to grubbing and vegetation removal. If any stumps in proximity to retained trees need to be removed for construction, arborist supervision is required during stump grinding or excavation.

Arborist to mark removal trees ahead of clearing and monitoring removals. Arborist to review retained trees following felling to assess for risk. Additional removals may be necessary.

Tree #103 is recommended to convert to a wildlife tree at 6m with a jagged top.

A dead tree is leaning into crown of tree #28. Removal of the dead tree is recommended.

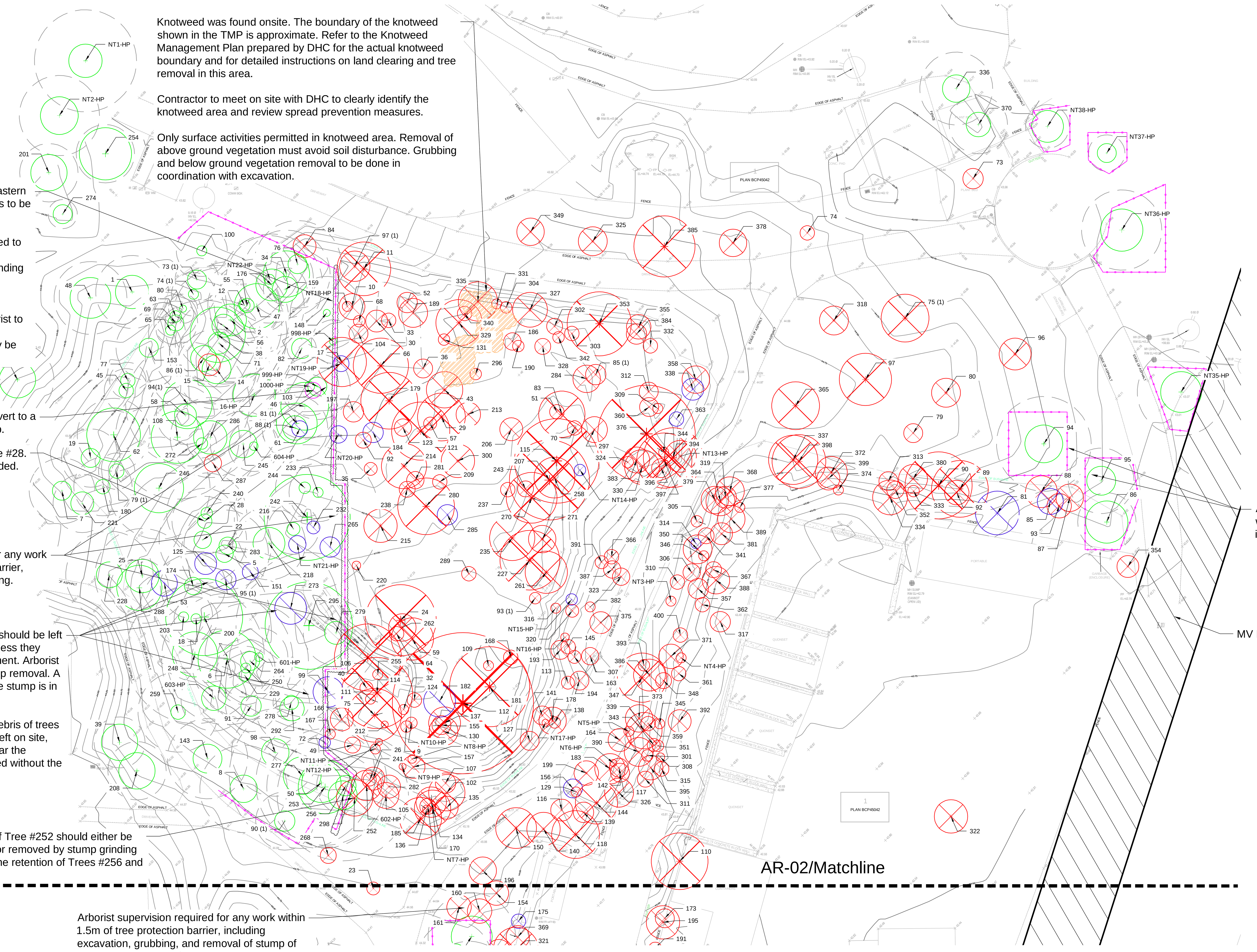
Arborist supervision required for any work within 1.5m of tree protection barrier, including excavation and grubbing.

Tree stumps within retention areas should be left in place to minimize disturbance unless they conflict with the proposed development. Arborist supervision is required for any stump removal. A stump grinder may be required if the stump is in proximity to a retained tree.

During tree removal, large woody debris of trees felled in the retention area may be left on site, while branches and small debris near the construction area should be removed without the use of heavy equipment.

The stump of Tree #252 should either be left in place or removed by stump grinding to allow for the retention of Trees #256 and #298.

Arborist supervision required for any work within 1.5m of tree protection barrier, including excavation, grubbing, and removal of stump of trees #149, #160, and #161.



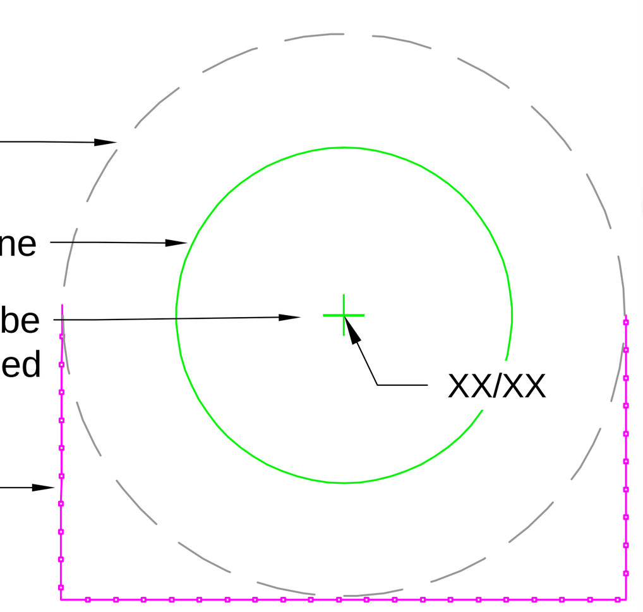
Arborist supervision required for any work within 1.5m of tree protection barrier, including excavation and grubbing.

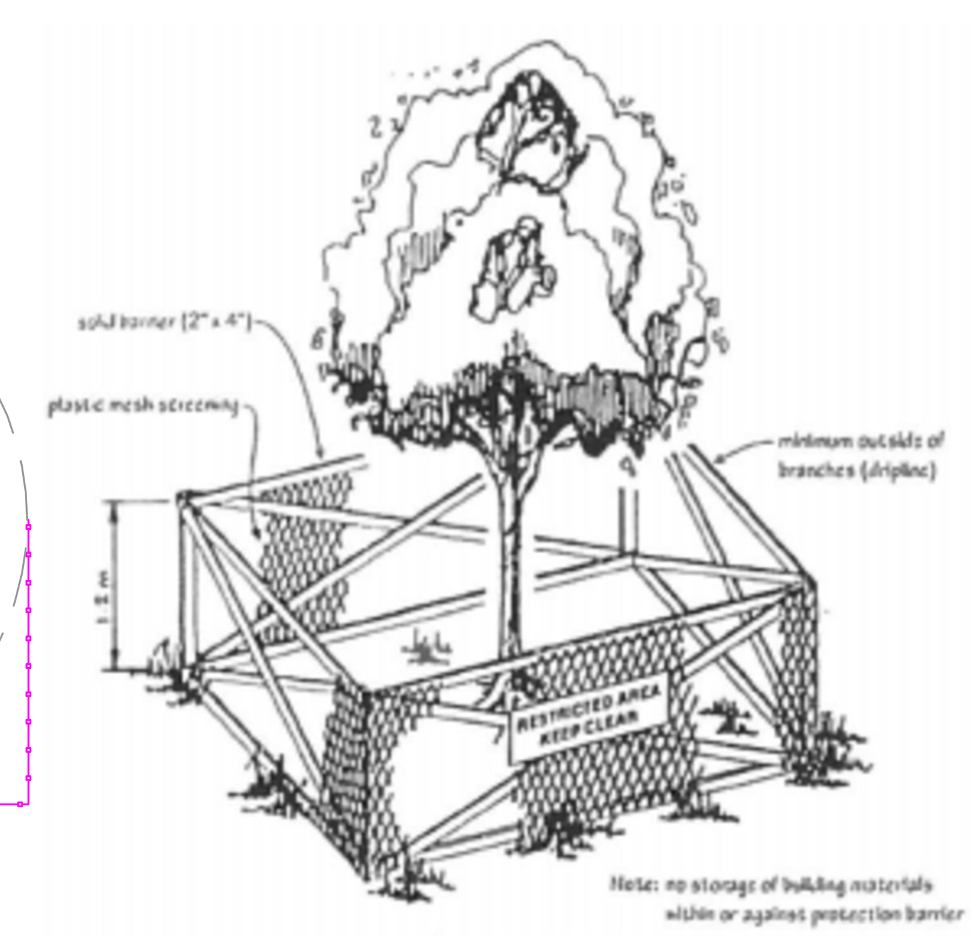
Note:
1. Contact VDZ+A Project Arborist (Glyn Romaine - glyn@vdz.ca) for inspection 72 hrs prior to any grading or excavation within the tree protection zone. (typ) If during excavation it is found that it cannot be completed without severing roots that are critical to the trees health or stability it may be necessary to remove additional trees.
2. Read this plan together with the arborist report prepared by VDZ+A.
3. An additional 1m setback is shown for all hand-plotted trees to be retained
4.If Stump Grinding is to occur in close proximity to trees which are to be retained then it is requested stumps to be removed under Arborist supervision.
5. It is the responsibility of the client or his/her representative to contact the project arborist for the purpose of:
*Locating TPZ Fencing
*Locating Work Zone and Machine access corridors where required
*Reviewing the Report with the project foreman or site supervisor.

LEGEND

- Existing Tree to be Retained
- Existing Tree to be Removed
- Existing Tree in poor condition to be Removed
- Existing Dead Tree to be Removed
- Existing Dead Tree to be Wildlifed
- Undersize Tree, Existing Dead Tree to be Retained, or Stump
- Tree Protection Fencing

Tree Tag Legend
XX - Tag number
C-XX - Municipal tree
OS-XX - Off-site tree
S-XX - Straddling tree. Written permission required from owner to remove trees.
XX (HP) - Hand-plotted
XX-NT - No Tag #





Tree Protection Distance Table

Trunk Diameter (cm)	Minimum Protection Req'd Around Tree (distance from trunk in metres)
20	1.2
25	1.5
30	1.8
35	2.1
40	2.4
45	2.7
50	3
55	3.3
60	3.6
75	4.5
90	5.4
100	6.0

1:300 0 3m 6 9 12 15 18 21 24 27 30 33 36 39 42 45

Z:\PROJECTS\PARKS & RECREATION\ACTIVE\2025\PR2025-22 TOWN CENTRE PARK TENNIS COURTS\5_DWG\SHEETS\URBAN FORESTRY\AR01 - TREE

VDZ+A
VAN DER ZALM + ASSOCIATES
LANDSCAPE ARCHITECTURE · CIVIL ENGINEERING · URBAN FORESTRY

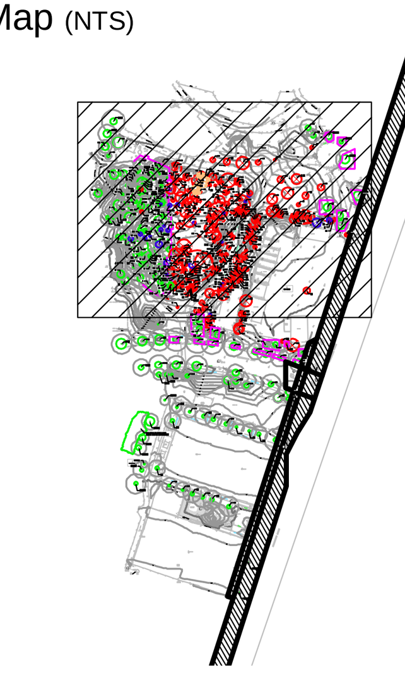
KELOWNA
FORT LANGLEY
VANCOUVER
604-882-0024
www.vdz.ca

Coquitlam

Client: Ref. #:

Sub-Consultants:
Carscadden
DMD & Associates Electrical Consultants Ltd.

Key Map (NTS)



REV.	BY	DESCRIPTION	DATE
5			
4			
3	AL	Issued for Arborist Report	2025-12-19
2	AL	Issued for Arborist Report	2025-11-21
1	BF	Issued for 50% SD	2025-10-31

REVISIONS TABLE FOR DRAWINGS

REV.	BY	DESCRIPTION	DATE

REVISIONS TABLE FOR SHEET

Project:
TOWN CENTRE PARK
TENNIS COURTS

Location:
1299 Pinetree Way
Coquitlam, B.C.

Drawn: GYL
Stamp:
Checked: DGR
Approved: MVDZ
Original Sheet Size: 24"x36"
Scale: 1:300
NORTH

CONTRACTOR SHALL CHECK ALL DIMENSIONS ON THE WORK AND REPORT ANY DISCREPANCY TO THE CONSULTANT BEFORE PROCEEDING. ALL DRAWINGS AND SPECIFICATIONS ARE THE EXCLUSIVE PROPERTY OF THE OWNER AND MUST BE RETURNED AT THE COMPLETION OF THE WORK. ALL REZONING/DP/PHA/BP DRAWINGS MUST NOT BE PRICED FOR CONSTRUCTION UNLESS LABELED ISSUED FOR TENDER/CONSTRUCTION.

Drawing Title: TREE MANAGEMENT PLAN

VDZ Project #: PR2025-22

Drawing #: AR-01