BC Plant Health Care Inc.
Arborist Report

JOB NAME:	City of Delta 20201202-1 PO 2097915
RE:	Arborist Report for a Tree Resource Evaluation
SITE:	Winskill Park 5575 9 Ave, Delta, BC V4M 1W1
PREPARED FOR:	Clayton Nybo Acting Superintendent of Horticulture and Urban Forestry City of Delta Office: 604-952-3409 Cell: 604-861-1987 Email: cnybo@delta.ca
DATE:	December 14th, 2020
PROJECT ARBORIST:	Philip Kin Cho ISA Certified Arborist #HK-1086AM ISA Certified Arborist Municipal Specialist ISA Tree Risk Assessment Qualification Forester in Training #5727 BSSc, MSc, MSFM
REVIEWED BY:	Thomas Walz ISA Board Certified Master Arborist #PN-5960BT ISA Tree Risk Assessment Qualification WUAA/HEBC Falling & Bucking Endorsement #98 TCIA Certified Treecare Safety Professional #866 BC C of Q Arborist Technician #00017-TA-10 BC C of Q Climbing Arborist #00007-TB-13 ITA Registered Climbing Arborist Assessor Member – American Society of Consulting Arborists

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1.0 Summary

The tree inventory includes [152] trees. Alder, cedar, and cottonwood trees are the dominant species within the area of assessment. The inventoried trees are generally in fair or poor health and structure and have moderate or poor retention suitability:

Table 1. Tree retention suitability.

Tree Retention Suitability		Quantity
Good	Trees in this category are in good health and structural stability and have the potential for longevity at the site.	3
Moderate	Trees in this category are in fair health and/or have structural defects that may be mitigated with treatment. These trees may require more intense management and monitoring and may have shorter lifespans than those in the "good" category.	55
Poor	Trees in this category are in poor health or have significant defects in structure that cannot be mitigated with treatment. These trees can be expected to decline regardless of management. The species or individual tree may possess characteristics that are incompatible or undesirable in landscape settings or be unsuited for the intended use of the site.	94
	Total	**152**

The inventoried trees did not meet the moderate risk reporting threshold. However, there are dead alder trees targeting the properties north of the area of assessment.

Removal of the assessed dead and dying trees is recommended for public safety.

2.0 Introduction

BC Plant Health Care Inc. has been contracted by Clayton Nybo of the City of Delta to prepare an *Arborist Report for a Tree Resource Evaluation* for the area identified on the green outlined section of the map (Winskill Tree Assessment Map BCPHC.png) sent in the email dated December 2nd, 2020. The scope of work was to tag, inventory, and assess trees greater than 20 cm diameter at breast height (DBH). The purpose of the assignment was to evaluate the tree resources to assist with future management decisions.

I, Philip Kin Cho of BC Plant Health Care Inc., visited the site and performed the assessment on December 8th and 9th, 2020. The fieldwork was conducted with the map downloaded from the City of Delta's Online Mapping System *DeltaMap*. Aluminum tree tags #101-252 were fixed to [152] trees.

Tools used were:

- A diameter tape
- A carpenter's tape
- A mallet for testing soundness
- A camera for documenting findings

The inventory was conducted for the [152] trees to collect information about location, species, DBH, minimum critical root zone, estimated height, average dripline radius, live crown ratio, trunk lean, age category, general health and condition, notable risk conditions, overall risk in the current setting (moderate risk reporting threshold - International Society of Arboriculture (ISA) Tree Risk Assessment Qualification (TRAQ) model), and retention suitability. Photographs were taken during the assessment to document observations.

This *Report* was produced based on the topographic survey provided by Luke Chapman of the City of Delta (Winskill Park topo.dwg). An *Aerial Site Map* and a *Tree Retention Suitability Map* have been produced and are included at the end of this *Report*.

This *Report* was completed on December 14th, 2020.

3.0 Observations & Discussion

The tree inventory includes [152] trees:

Table 2. Tree species.

Botanical Name	Common Name	Quantity
Acer macrophyllum	Bigleaf maple	2
Acer sp.	Maple	9
Alnus rubra	Red alder	51
Betula sp.	Birch	10
Carpinus betulus	Hornbeam	2
Cedrus deodara	Deodar cedar	2
Liquidambar styraciflua	Sweetgum	2
Parrotia sp.	Ironwood	2
Pinus sp.	Pine	2
Populus balsamifera ssp. trichocarpa	Black cottonwood	22
Prunus sp.	Cherry	1
Pseudotsuga menziesii	Douglas-fir	1
Quercus sp.	Oak	5
Salix sp.	Willow	3
Sequoia sempervirens	Redwood	3
Thuja plicata	Western redcedar	33
Tilia sp.	Linden	2
	Total	**152**

Table 3. Tree retention suitability.

Tree Retention Suitability		Quantity
Good	Trees in this category are in good health and structural stability and have the potential for longevity at the site.	3
Moderate	Trees in this category are in fair health and/or have structural defects that may be mitigated with treatment. These trees may require more intense management and monitoring and may have shorter lifespans than those in the "good" category.	55
Poor	Trees in this category are in poor health or have significant defects in structure that cannot be mitigated with treatment. These trees can be expected to decline regardless of management. The species or individual tree may possess characteristics that are incompatible or undesirable in landscape settings or be unsuited for the intended use of the site.	94
	Total	**152**

4.0 Conclusions & Recommendations

The tree inventory includes [152] trees. Alder, cedar, and cottonwood trees are the dominant species within the area of assessment. The inventoried trees are generally in fair or poor health and structure and have moderate or poor retention suitability. The inventoried trees did not meet the moderate risk reporting threshold. However, there are dead alder trees targeting the properties north of the area of assessment.

Removal of the assessed dead and dying trees is recommended for the public safety.

Should you have any questions or concerns, please do not hesitate to call me.

Yours truly,

BC PLANT HEALTH CARE INC.



Philip Kin Cho

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ISA Certified Arborist Municipal Specialist
ISA Tree Risk Assessment Qualification
Forester in Training #5727
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Attachments

A. Photographs



Photo 1



Photo 2



Photo 3



Photo 4



Photo 5



Photo 6



Photo 7



Photo 8

Tree ID	Botanical Name	Common Name	DBH (cm)	CRZ Radius from Trunk (m)	Estimated Height (m)	Estimated Dripline Radius (m)	Live Crown Ratio	Trunk lean (Degrees/Direction)	Age	Health Condition	Defects	Tree Risk	Retention Suitability
101	*Salix* sp.	Willow	55	3.30	7	2	>50%	45SE	Semi-mature (20-40)	Poor	Decay Epicormics	Low	Poor
102	*Alnus rubra*	Red alder	32	1.92	12	0	<20%	0	Semi-mature (20-40)	Dead	-	Low	Poor
103	*Alnus rubra*	Red alder	20	1.20	5	0	<20%	10E	Semi-mature (20-40)	Dead	-	Low	Poor
104	*Alnus rubra*	Red alder	37	2.22	12	2	20-30%	20NE	Semi-mature (20-40)	Dying	-	Low	Poor
105	*Populus balsamifera* ssp. *trichocarpa*	Black cottonwood	65	3.90	25	7	30-40%	0	Mature (40+)	Fair	-	Low	Poor
106	*Salix* sp.	Willow	25	1.50	6	0	20-30%	10SE	Semi-mature (20-40)	Dying	Decay Fungal fruiting bodies	Low	Poor
107	*Alnus rubra*	Red alder	34	2.04	12	4	>50%	20S	Semi-mature (20-40)	Poor	Decay	Low	Poor
108	*Alnus rubra*	Red alder	30	1.80	12	3	>50%	20E	Semi-mature (20-40)	Fair	-	Low	Poor
109	*Alnus rubra*	Red alder	45	2.70	13	3	>50%	20S	Semi-mature (20-40)	Fair	Codominant stems Gall at middle stem	Low	Poor
110	*Alnus rubra*	Red alder	44	2.64	17	3	>50%	0	Semi-mature (20-40)	Fair	-	Low	Poor
111	*Alnus rubra*	Red alder	48	2.88	15	0	<20%	0	Semi-mature (20-40)	Dead	-	Low	Poor
112	*Alnus rubra*	Red alder	27	1.62	6	0	<20%	10NW	Semi-mature (20-40)	Dead	-	Low	Poor
113	*Pinus* sp.	Pine	25	1.50	11	2	>50%	0	Semi-mature (20-40)	Fair	-	Low	Moderate
114	*Populus balsamifera* ssp. *trichocarpa*	Black cottonwood	36	2.16	20	4	30-40%	10N	Semi-mature (20-40)	Fair	-	Low	Poor
115	*Populus balsamifera* ssp. *trichocarpa*	Black cottonwood	31	1.86	15	4	40-50%	10NE	Semi-mature (20-40)	Fair	-	Low	Poor
116	*Populus balsamifera* ssp. *trichocarpa*	Black cottonwood	56	3.36	25	5	20-30%	0	Mature (40+)	Fair	-	Low	Poor
117	*Populus balsamifera* ssp. *trichocarpa*	Black cottonwood	30	1.80	20	3	20-30%	0	Semi-mature (20-40)	Fair	-	Low	Poor
118	*Populus balsamifera* ssp. *trichocarpa*	Black cottonwood	28	1.68	17	2	>50%	0	Semi-mature (20-40)	Fair	-	Low	Poor
119	*Populus balsamifera* ssp. *trichocarpa*	Black cottonwood	95	5.70	30	6	>50%	0	Mature (40+)	Fair	Multiple stems	Low	Poor
120	*Tilia* sp.	Linden	23	1.38	5	2	>50%	0	Young (5-20)	Fair	Crossed stems	Low	Moderate
121	*Alnus rubra*	Red alder	40	2.40	10	3	40-50%	20S	Semi-mature (20-40)	Dying	-	Low	Poor
122	*Populus balsamifera* ssp. *trichocarpa*	Black cottonwood	34	2.04	13	3	>50%	20S	Semi-mature (20-40)	Fair	Broken top	Low	Poor
123	*Populus balsamifera* ssp. *trichocarpa*	Black cottonwood	60	3.60	5	0	<20%	0	Mature (40+)	Dead	-	Low	Poor

Tree ID	Botanical Name	Common Name	DBH (cm)	CRZ Radius from Trunk (m)	Estimated Height (m)	Estimated Dripline Radius (m)	Live Crown Ratio	Trunk lean (Degrees/Direction)	Age	Health Condition	Defects	Tree Risk	Retention Suitability
124	*Populus balsamifera* ssp. *trichocarpa*	Black cottonwood	85	5.10	35	6	30-40%	20W	Semi-mature (20-40)	Fair	-	Low	Poor
125	*Populus balsamifera* ssp. *trichocarpa*	Black cottonwood	24	1.44	13	2	30-40%	0	Semi-mature (20-40)	Fair	-	Low	Poor
126	*Populus balsamifera* ssp. *trichocarpa*	Black cottonwood	62	3.72	25	6	40-50%	30W	Mature (40+)	Fair	Codominant stems Included bark	Low	Poor
127	*Populus balsamifera* ssp. *trichocarpa*	Black cottonwood	35	2.10	17	3	30-40%	10W	Semi-mature (20-40)	Fair	-	Low	Poor
128	*Acer* sp.	Maple	50	3.00	12	2	>50%	10W	Mature (40+)	Fair	Conflict with fence Ivy on stems	Low	Poor
129	*Acer* sp.	Maple	70	4.20	13	5	>50%	0	Semi-mature (20-40)	Fair	Multiple stems Bark cracks	Low	Poor
130	*Cedrus deodara*	Deodar cedar	24	1.44	8	3	>50%	0	Semi-mature (20-40)	Fair	-	Low	Moderate
131	*Tilia* sp.	Linden	35	2.10	5	3	>50%	10S	Young (5-20)	Fair	-	Low	Moderate
132	*Acer macrophyllum*	Bigleaf maple	230	13.80	15	10	>50%	0	Mature (40+)	Fair	Multiple stems Severe decay	Low	Poor
133	*Acer macrophyllum*	Bigleaf maple	103	6.18	12	4	>50%	0	Mature (40+)	Fair	-	Low	Moderate
134	*Populus balsamifera* ssp. *trichocarpa*	Black cottonwood	30	1.80	12	3	>50%	20E	Semi-mature (20-40)	Fair	Epicormics	Low	Poor
135	*Salix* sp.	Willow	43	2.58	6	3	>50%	20SE	Semi-mature (20-40)	Poor	Codominant stems Decay	Low	Poor
136	*Alnus rubra*	Red alder	33	1.98	12	3	>50%	10S	Semi-mature (20-40)	Fair	-	Low	Poor
137	*Alnus rubra*	Red alder	23	1.38	13	2	30-40%	10W	Semi-mature (20-40)	Poor	Bark peeling Fungal fruiting bodies	Low	Poor
138	*Populus balsamifera* ssp. *trichocarpa*	Black cottonwood	55	3.30	20	4	30-40%	10S	Mature (40+)	Fair	-	Low	Poor
139	*Populus balsamifera* ssp. *trichocarpa*	Black cottonwood	60	3.60	30	5	>50%	20SW	Mature (40+)	Fair	-	Low	Poor
140	*Populus balsamifera* ssp. *trichocarpa*	Black cottonwood	31	1.86	10	1	30-40%	10NE	Semi-mature (20-40)	Poor	Broken and decaying top	Low	Poor
141	*Populus balsamifera* ssp. *trichocarpa*	Black cottonwood	136	8.16	30	8	>50%	0	Mature (40+)	Fair	Multiple stems Broken and delaying stems	Low	Poor
142	*Alnus rubra*	Red alder	33	1.98	12	4	>50%	10W	Semi-mature (20-40)	Fair	-	Low	Poor

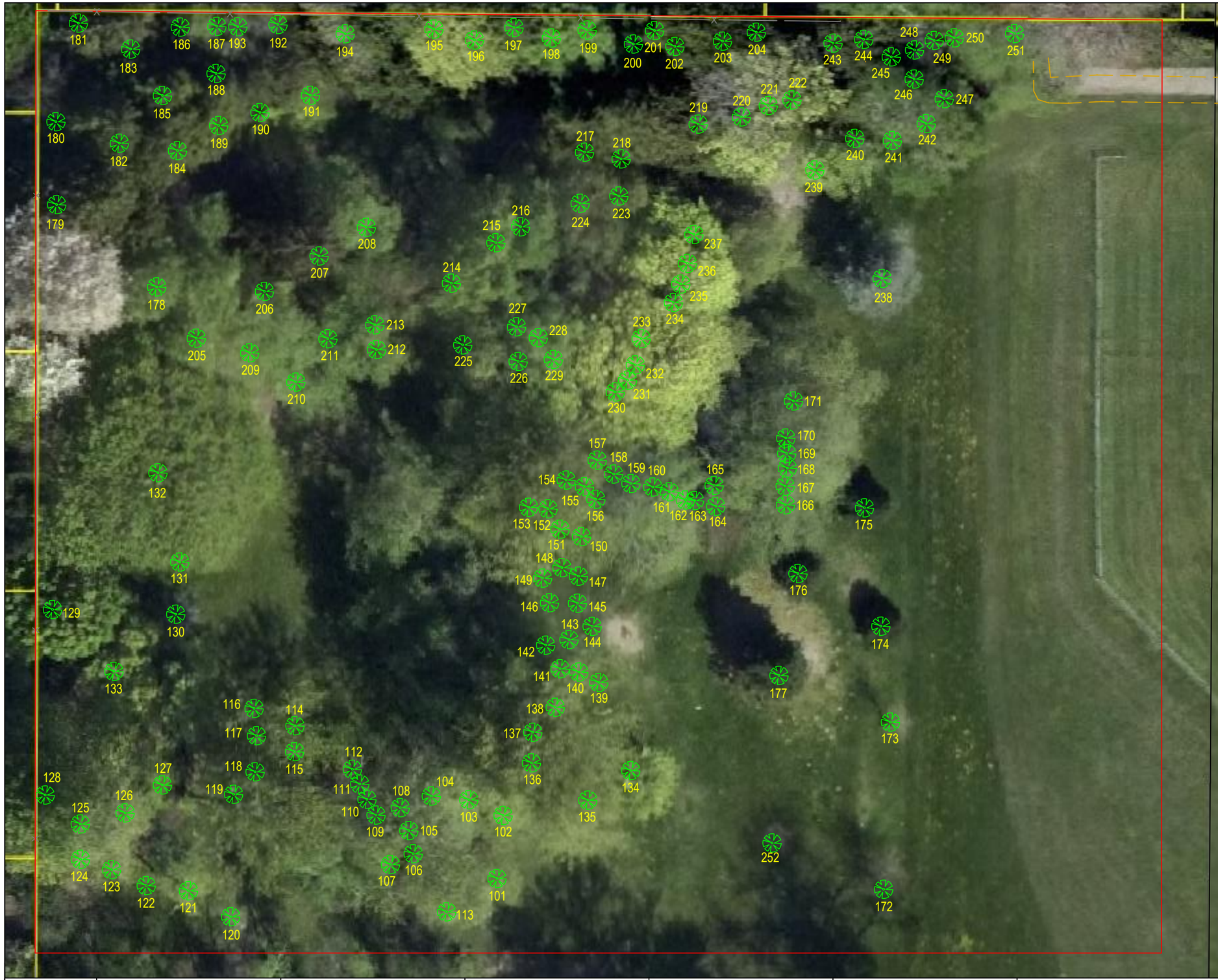
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143	*Populus balsamifera* ssp. *trichocarpa*	Black cottonwood	140	8.40	30	6	>50%	0	Mature (40+)	Fair	Multiple stems Dead branches	Low	Poor
144	*Carpinus betulus*	Hornbeam	24	1.44	6	5	>50%	10E	Semi-mature (20-40)	Fair	-	Low	Moderate
145	*Populus balsamifera* ssp. *trichocarpa*	Black cottonwood	55	3.30	12	5	>50%	0	Mature (40+)	Poor	Broken top	Low	Poor
146	*Alnus rubra*	Red alder	25	1.50	12	2	30-40%	10W	Semi-mature (20-40)	Fair	-	Low	Poor
147	*Carpinus betulus*	Hornbeam	26	1.56	7	3	30-40%	0	Semi-mature (20-40)	Fair	-	Low	Moderate
148	*Alnus rubra*	Red alder	60	3.60	8	0	<20%	0	Semi-mature (20-40)	Dead	-	Low	Poor
149	*Alnus rubra*	Red alder	21	1.26	6	3	>50%	20W	Semi-mature (20-40)	Poor	Decay	Low	Poor
150	*Alnus rubra*	Red alder	35	2.10	5	0	<20%	10W	Semi-mature (20-40)	Dead	-	Low	Poor
151	*Alnus rubra*	Red alder	45	2.70	12	5	>50%	10SW	Semi-mature (20-40)	Fair	-	Low	Poor
152	*Alnus rubra*	Red alder	21	1.26	4	0	<20%	0	Semi-mature (20-40)	Dead	-	Low	Poor
153	*Alnus rubra*	Red alder	50	3.00	14	5	>50%	10NW	Mature (40+)	Fair	Dead branches	Low	Poor
154	*Alnus rubra*	Red alder	37	2.22	14	4	>50%	10NW	Semi-mature (20-40)	Fair	Canker	Low	Poor
155	*Populus balsamifera* ssp. *trichocarpa*	Black cottonwood	90	5.40	30	8	>50%	20N	Mature (40+)	Fair	-	Low	Poor
156	*Populus balsamifera* ssp. *trichocarpa*	Black cottonwood	80	4.80	25	8	>50%	0	Mature (40+)	Fair	-	Low	Poor
157	*Alnus rubra*	Red alder	24	1.44	7	4	>50%	10N	Semi-mature (20-40)	Poor	Decay	Low	Poor
158	*Alnus rubra*	Red alder	34	2.04	4	0	<20%	10N	Semi-mature (20-40)	Dead	-	Low	Poor
159	*Alnus rubra*	Red alder	50	3.00	5	0	<20%	10SE	Semi-mature (20-40)	Dead	-	Low	Poor
160	*Alnus rubra*	Red alder	33	1.98	15	3	30-40%	10N	Semi-mature (20-40)	Poor	Canker	Low	Poor
161	*Alnus rubra*	Red alder	29	1.74	12	3	40-50%	20NE	Semi-mature (20-40)	Fair	-	Low	Poor
162	*Alnus rubra*	Red alder	38	2.28	15	4	>50%	10NE	Semi-mature (20-40)	Fair	-	Low	Poor
163	*Alnus rubra*	Red alder	28	1.68	13	3	>50%	0	Semi-mature (20-40)	Fair	-	Low	Poor
164	*Alnus rubra*	Red alder	41	2.46	12	5	>50%	10SE	Mature (40+)	Poor	Canker	Low	Poor
165	*Alnus rubra*	Red alder	30	1.80	10	4	>50%	30E	Semi-mature (20-40)	Fair	Trunk decay	Low	Poor
166	*Alnus rubra*	Red alder	29	1.74	12	4	>50%	10S	Semi-mature (20-40)	Fair	-	Low	Poor
167	*Alnus rubra*	Red alder	75	4.50	13	5	>50%	0	Mature (40+)	Fair	Codominant stems	Low	Poor

Tree ID	Botanical Name	Common Name	DBH (cm)	CRZ Radius from Trunk (m)	Estimated Height (m)	Estimated Dripline Radius (m)	Live Crown Ratio	Trunk lean (Degrees/Direction)	Age	Health Condition	Defects	Tree Risk	Retention Suitability
168	*Alnus rubra*	Red alder	41	2.46	15	5	>50%	0	Mature (40+)	Fair	-	Low	Poor
169	*Alnus rubra*	Red alder	38	2.28	15	6	>50%	10E	Semi-mature (20-40)	Fair	-	Low	Poor
170	*Alnus rubra*	Red alder	84	5.04	15	6	>50%	20E	Semi-mature (20-40)	Fair	Multiple stems	Low	Poor
171	*Betula* sp.	Birch	42	2.52	10	7	>50%	20E	Mature (40+)	Dying	Fungal fruiting bodies	Low	Poor
172	*Liquidambar styraciflua*	Sweetgum	26	1.56	7	3	>50%	0	Semi-mature (20-40)	Fair	-	Low	Moderate
173	*Liquidambar styraciflua*	Sweetgum	21	1.26	7	2	>50%	0	Semi-mature (20-40)	Fair	-	Low	Moderate
174	*Sequoia sempervirens*	Redwood	50	3.00	6	2	>50%	0	Mature (40+)	Good	-	Low	Good
175	*Sequoia sempervirens*	Redwood	50	3.00	7	2	>50%	0	Mature (40+)	Good	-	Low	Good
176	*Sequoia sempervirens*	Redwood	50	3.00	6	2	>50%	0	Mature (40+)	Good	-	Low	Good
177	*Pinus* sp.	Pine	55	3.30	10	3	>50%	0	Mature (40+)	Fair	Multiple stems Included bark	Low	Moderate
178	*Thuja plicata*	Western redcedar	115	6.90	11	5	>50%	0	Mature (40+)	Poor	Multiple stems Dying top	Low	Poor
179	*Thuja plicata*	Western redcedar	94	5.64	20	5	>50%	10W	Mature (40+)	Fair	Coppiced	Low	Moderate
180	*Thuja plicata*	Western redcedar	71	4.26	20	4	>50%	0	Mature (40+)	Fair	-	Low	Moderate
181	*Thuja plicata*	Western redcedar	104	6.24	20	5	>50%	0	Mature (40+)	Fair	Codominant stems Large basal wound	Low	Poor
182	*Thuja plicata*	Western redcedar	71	4.26	20	5	>50%	0	Mature (40+)	Fair	-	Low	Moderate
183	*Thuja plicata*	Western redcedar	42	2.52	10	4	>50%	0	Mature (40+)	Fair	-	Low	Moderate
184	*Thuja plicata*	Western redcedar	49	2.94	15	5	>50%	10E	Mature (40+)	Fair	-	Low	Moderate
185	*Thuja plicata*	Western redcedar	90	5.40	17	5	>50%	0	Mature (40+)	Fair	Codominant stems Included bark Broken stem	Low	Moderate
186	*Alnus rubra*	Red alder	62	3.72	15	5	>50%	20N	Mature (40+)	Poor	Included bark Suspected decay	Low	Poor
187	*Thuja plicata*	Western redcedar	60	3.60	17	4	>50%	0	Mature (40+)	Fair	Conflict with adjacent tree #193	Low	Moderate

Tree ID	Botanical Name	Common Name	DBH (cm)	CRZ Radius from Trunk (m)	Estimated Height (m)	Estimated Dripline Radius (m)	Live Crown Ratio	Trunk lean (Degrees/Direction)	Age	Health Condition	Defects	Tree Risk	Retention Suitability
188	*Thuja plicata*	Western redcedar	44	2.64	15	4	>50%	0	Mature (40+)	Fair	-	Low	Moderate
189	*Alnus rubra*	Red alder	33	1.98	15	4	>50%	0	Semi-mature (20-40)	Fair	-	Low	Poor
190	*Thuja plicata*	Western redcedar	73	4.38	15	5	>50%	10E	Mature (40+)	Fair	-	Low	Moderate
191	*Parrotia* sp.	Ironwood	42	2.52	6	4	>50%	0	Young (5-20)	Fair	-	Low	Moderate
192	*Quercus* sp.	Oak	38	2.28	7	3	>50%	0	Semi-mature (20-40)	Fair	Codominant stems	Low	Poor
193	*Alnus rubra*	Red alder	50	3.00	15	0	<20%	15NE	Mature (40+)	Dead	Conflict with adjacent tree #187	Low	Poor
194	*Thuja plicata*	Western redcedar	140	8.40	20	5	>50%	0	Mature (40+)	Fair	Codominant stems	Low	Moderate
195	*Thuja plicata*	Western redcedar	49	2.94	17	4	>50%	0	Mature (40+)	Fair	-	Low	Moderate
196	*Thuja plicata*	Western redcedar	138	8.28	12	5	>50%	0	Mature (40+)	Fair	Topped	Low	Moderate
197	*Thuja plicata*	Western redcedar	73	4.38	15	4	>50%	0	Mature (40+)	Fair	-	Low	Moderate
198	*Quercus* sp.	Oak	56	3.36	20	5	>50%	0	Mature (40+)	Fair	Codominant stems	Low	Moderate
199	*Thuja plicata*	Western redcedar	65	3.90	15	5	>50%	0	Mature (40+)	Fair	-	Low	Moderate
200	*Alnus rubra*	Red alder	82	4.92	17	4	>50%	10N	Mature (40+)	Fair	-	Low	Poor
201	*Betula* sp.	Birch	36	2.16	10	4	>50%	40N	Semi-mature (20-40)	Fair	-	Low	Poor
202	*Quercus* sp.	Oak	70	4.20	17	5	>50%	0	Mature (40+)	Poor	Dead branches	Low	Poor
203	*Thuja plicata*	Western redcedar	70	4.20	17	5	>50%	0	Mature (40+)	Fair	Coppiced	Low	Moderate
204	*Thuja plicata*	Western redcedar	64	3.84	14	4	>50%	10E	Mature (40+)	Fair	-	Low	Moderate
205	*Alnus rubra*	Red alder	91	5.46	14	5	>50%	20SE	Mature (40+)	Poor	Crack Canker Lower trunk bend	Low	Poor
206	*Thuja plicata*	Western redcedar	84	5.04	13	3	>50%	0	Mature (40+)	Fair	-	Low	Moderate
207	*Alnus rubra*	Red alder	44	2.64	13	4	>50%	20NE	Mature (40+)	Fair	Trunk bend	Low	Poor
208	*Quercus* sp.	Oak	25	1.50	12	3	>50%	10N	Semi-mature (20-40)	Fair	-	Low	Moderate
209	*Alnus rubra*	Red alder	83	4.98	16	6	>50%	10S	Mature (40+)	Fair	Trunk cavity	Low	Poor
210	*Pseudotsuga menziesii*	Douglas-fir	23	1.38	12	2	>50%	0	Semi-mature (20-40)	Fair	-	Low	Moderate
211	*Alnus rubra*	Red alder	55	3.30	17	6	>50%	20SE	Mature (40+)	Fair	-	Low	Poor

Tree ID	Botanical Name	Common Name	DBH (cm)	CRZ Radius from Trunk (m)	Estimated Height (m)	Estimated Dripline Radius (m)	Live Crown Ratio	Trunk lean (Degrees/Direction)	Age	Health Condition	Defects	Tree Risk	Retention Suitability
212	*Betula* sp.	Birch	43	2.58	17	4	>50%	0	Mature (40+)	Fair	Broken leader	Low	Poor
213	*Quercus* sp.	Oak	35	2.10	12	4	>50%	0	Young (5-20)	Fair	-	Low	Moderate
214	*Betula* sp.	Birch	88	5.28	17	5	>50%	0	Mature (40+)	Fair	-	Low	Moderate
215	*Alnus rubra*	Red alder	47	2.82	20	5	>50%	0	Mature (40+)	Fair	Trunk canker Trunk bend	Low	Poor
216	*Betula* sp.	Birch	48	2.88	20	7	30-40%	0	Mature (40+)	Fair	-	Low	Moderate
217	*Thuja plicata*	Western redcedar	76	4.56	15	4	>50%	0	Mature (40+)	Fair	-	Low	Moderate
218	*Betula* sp.	Birch	34	2.04	17	4	30-40%	20S	Semi-mature (20-40)	Fair	-	Low	Moderate
219	*Thuja plicata*	Western redcedar	35	2.10	17	3	>50%	10N	Semi-mature (20-40)	Fair	-	Low	Moderate
220	*Thuja plicata*	Western redcedar	77	4.62	20	4	>50%	0	Mature (40+)	Fair	-	Low	Moderate
221	*Thuja plicata*	Western redcedar	72	4.32	20	5	>50%	0	Mature (40+)	Fair	-	Low	Moderate
222	*Thuja plicata*	Western redcedar	90	5.40	20	5	>50%	0	Mature (40+)	Fair	-	Low	Moderate
223	*Thuja plicata*	Western redcedar	59	3.54	15	3	>50%	0	Semi-mature (20-40)	Fair	-	Low	Moderate
224	*Acer* sp.	Maple	37	2.22	6	5	>50%	10SE	Young (5-20)	Fair	Multiple stems Dead branches	Low	Poor
225	*Prunus* sp.	Cherry	42	2.52	8	5	>50%	40S	Mature (40+)	Fair	Trunk decay damage	Low	Poor
226	*Betula* sp.	Birch	38	2.28	20	5	>50%	0	Semi-mature (20-40)	Fair	-	Low	Moderate
227	*Thuja plicata*	Western redcedar	52	3.12	15	5	>50%	0	Mature (40+)	Fair	-	Low	Moderate
228	*Betula* sp.	Birch	22	1.32	12	4	>50%	20SE	Semi-mature (20-40)	Fair	-	Low	Moderate
229	*Thuja plicata*	Western redcedar	58	3.48	15	3	>50%	0	Mature (40+)	Fair	-	Low	Moderate
230	*Acer* sp.	Maple	86	5.16	25	10	>50%	20S	Mature (40+)	Fair	Dead branches	Low	Poor
231	*Betula* sp.	Birch	43	2.58	15	3	40-50%	30SE	Mature (40+)	Fair	-	Low	Poor
232	*Acer* sp.	Maple	52	3.12	17	4	30-40%	10NE	Mature (40+)	Fair	Trunk bend	Low	Poor
233	*Acer* sp.	Maple	57	3.42	20	7	>50%	0	Mature (40+)	Fair	Dead branches	Low	Moderate
234	*Thuja plicata*	Western redcedar	70	4.20	12	3	>50%	0	Mature (40+)	Fair	Broken top	Low	Moderate
235	*Acer* sp.	Maple	39	2.34	6	3	>50%	30SE	Young (5-20)	Fair	-	Low	Poor

Tree ID	Botanical Name	Common Name	DBH (cm)	CRZ Radius from Trunk (m)	Estimated Height (m)	Estimated Dripline Radius (m)	Live Crown Ratio	Trunk lean (Degrees/Direction)	Age	Health Condition	Defects	Tree Risk	Retention Suitability
236	*Betula* sp.	Birch	40	2.40	15	3	30-40%	20SE	Mature (40+)	Fair	Trunk canker	Low	Poor
237	*Thuja plicata*	Western redcedar	79	4.74	15	6	>50%	0	Mature (40+)	Fair	-	Low	Moderate
238	*Cedrus deodara*	Deodar cedar	41	2.46	8	5	>50%	0	Mature (40+)	Fair	-	Low	Moderate
239	*Acer* sp.	Maple	95	5.70	17	8	>50%	0	Mature (40+)	Dying	Dead branches Severe decay	Low	Poor
240	*Thuja plicata*	Western redcedar	56	3.36	13	3	>50%	0	Mature (40+)	Fair	-	Low	Moderate
241	*Thuja plicata*	Western redcedar	31	1.86	12	3	>50%	0	Semi-mature (20-40)	Fair	Trunk wound Codominant stems	Low	Moderate
242	*Thuja plicata*	Western redcedar	48	2.88	12	2	>50%	20E	Mature (40+)	Fair	-	Low	Moderate
243	*Acer* sp.	Maple	31	1.86	6	5	>50%	20W	Young (5-20)	Fair	-	Low	Moderate
244	*Thuja plicata*	Western redcedar	114	6.84	17	5	>50%	0	Semi-mature (20-40)	Fair	-	Low	Moderate
245	*Alnus rubra*	Red alder	35	2.10	15	3	>50%	20S	Semi-mature (20-40)	Dying	-	Low	Poor
246	*Alnus rubra*	Red alder	43	2.58	9	6	>50%	50S	Mature (40+)	Dying	-	Low	Poor
247	*Alnus rubra*	Red alder	58	3.48	17	6	>50%	20S	Mature (40+)	Dying	-	Low	Poor
248	*Alnus rubra*	Red alder	37	2.22	6	0	<20%	10NE	Semi-mature (20-40)	Dead	-	Low	Poor
249	*Alnus rubra*	Red alder	50	3.00	17	5	>50%	10N	Mature (40+)	Fair	Missing top	Low	Poor
250	*Alnus rubra*	Red alder	25	1.50	9	0	<20%	0	Semi-mature (20-40)	Dead	-	Low	Poor
251	*Alnus rubra*	Red alder	95	5.70	15	6	>50%	30E	Mature (40+)	Poor	Codominant stems Trunk decay	Low	Poor
252	*Parrotia* sp.	Ironwood	42	2.52	6	3	>50%	0	Young (5-20)	Fair	-	Low	Moderate



Tree ID	Common Name	DBH (cm)	Health Condition	Retention Suitability	Tree ID	Common Name	DBH (cm)	Health Condition	Retention Suitability
101	Willow	55	Poor	Poor	177	Pine	55	Fair	Moderate
102	Red alder	32	Dead	Poor	178	Western redcedar	115	Poor	Poor
103	Red alder	20	Dead	Poor	179	Western redcedar	94	Fair	Moderate
104	Red alder	37	Dying	Poor	180	Western redcedar	71	Fair	Moderate
105	Black cottonwood	65	Fair	Poor	181	Western redcedar	104	Fair	Poor
106	Willow	25	Dying	Poor	182	Western redcedar	71	Fair	Moderate
107	Red alder	34	Poor	Poor	183	Western redcedar	42	Fair	Moderate
108	Red alder	30	Fair	Poor	184	Western redcedar	49	Fair	Moderate
109	Red alder	45	Fair	Poor	185	Western redcedar	90	Fair	Moderate
110	Red alder	44	Fair	Poor	186	Red alder	62	Poor	Poor
111	Red alder	48	Dead	Poor	187	Western redcedar	60	Fair	Moderate
112	Red alder	27	Dead	Poor	188	Western redcedar	44	Fair	Moderate
113	Pine	25	Fair	Moderate	189	Red alder	33	Fair	Poor
114	Black cottonwood	36	Fair	Poor	190	Western redcedar	73	Fair	Moderate
115	Black cottonwood	31	Fair	Poor	191	Ironwood	42	Fair	Moderate
116	Black cottonwood	56	Fair	Poor	192	Oak	38	Fair	Poor
117	Black cottonwood	30	Fair	Poor	193	Red alder	50	Dead	Poor
118	Black cottonwood	28	Fair	Poor	194	Western redcedar	140	Fair	Moderate
119	Black cottonwood	95	Fair	Poor	195	Western redcedar	49	Fair	Moderate
120	Linden	23	Fair	Moderate	196	Western redcedar	138	Fair	Moderate
121	Red alder	40	Dying	Poor	197	Western redcedar	73	Fair	Moderate
122	Black cottonwood	34	Fair	Poor	198	Oak	56	Fair	Moderate
123	Black cottonwood	60	Dead	Poor	199	Western redcedar	65	Fair	Moderate
124	Black cottonwood	85	Fair	Poor	200	Red alder	82	Fair	Poor
125	Black cottonwood	24	Fair	Poor	201	Birch	36	Fair	Poor
126	Black cottonwood	62	Fair	Poor	202	Oak	70	Poor	Poor
127	Black cottonwood	35	Fair	Poor	203	Western redcedar	70	Fair	Moderate
128	Maple	50	Fair	Poor	204	Western redcedar	64	Fair	Moderate
129	Maple	70	Fair	Poor	205	Red alder	91	Poor	Poor
130	Deodar cedar	24	Fair	Moderate	206	Western redcedar	84	Fair	Moderate
131	Linden	35	Fair	Moderate	207	Red alder	44	Fair	Poor
132	Bigleaf maple	230	Fair	Poor	208	Oak	25	Fair	Moderate
133	Bigleaf maple	103	Fair	Moderate	209	Red alder	83	Fair	Poor
134	Black cottonwood	30	Fair	Poor	210	Douglas-fir	23	Fair	Moderate
135	Willow	43	Poor	Poor	211	Red alder	55	Fair	Poor
136	Red alder	33	Fair	Poor	212	Birch	43	Fair	Poor
137	Red alder	23	Poor	Poor	213	Oak	35	Fair	Moderate
138	Black cottonwood	55	Fair	Poor	214	Birch	88	Fair	Moderate
139	Black cottonwood	60	Fair	Poor	215	Red alder	47	Fair	Poor
140	Black cottonwood	31	Poor	Poor	216	Birch	48	Fair	Moderate
141	Black cottonwood	136	Fair	Poor	217	Western redcedar	76	Fair	Moderate
142	Red alder	33	Fair	Poor	218	Birch	34	Fair	Moderate
143	Black cottonwood	140	Fair	Poor	219	Western redcedar	35	Fair	Moderate
144	Hornbeam	24	Fair	Moderate	220	Western redcedar	77	Fair	Moderate
145	Black cottonwood	55	Poor	Poor	221	Western redcedar	72	Fair	Moderate
146	Red alder	25	Fair	Poor	222	Western redcedar	90	Fair	Moderate
147	Hornbeam	26	Fair	Moderate	223	Western redcedar	59	Fair	Moderate
148	Red alder	60	Dead	Poor	224	Maple	37	Fair	Poor
149	Red alder	21	Poor	Poor	225	Cherry	42	Fair	Poor
150	Red alder	35	Dead	Poor	226	Birch	38	Fair	Moderate
151	Red alder	45	Fair	Poor	227	Western redcedar	52	Fair	Moderate
152	Red alder	21	Dead	Poor	228	Birch	22	Fair	Moderate
153	Red alder	50	Fair	Poor	229	Western redcedar	58	Fair	Moderate
154	Red alder	37	Fair	Poor	230	Maple	86	Fair	Poor
155	Black cottonwood	90	Fair	Poor	231	Birch	43	Fair	Poor
156	Black cottonwood	80	Fair	Poor	232	Maple	52	Fair	Poor
157	Red alder	24	Poor	Poor	233	Maple	57	Fair	Moderate
158	Red alder	34	Dead	Poor	234	Western redcedar	70	Fair	Moderate
159	Red alder	50	Dead	Poor	235	Maple	39	Fair	Poor
160	Red alder	33	Poor	Poor	236	Birch	40	Fair	Poor
161	Red alder	29	Fair	Poor	237	Western redcedar	79	Fair	Moderate
162	Red alder	38	Fair	Poor	238	Deodar cedar	41	Fair	Moderate
163	Red alder	28	Fair	Poor	239	Maple	95	Dying	Poor
164	Red alder	41	Poor	Poor	240	Western redcedar	56	Fair	Moderate
165	Red alder	30	Fair	Poor	241	Western redcedar	31	Fair	Moderate
166	Red alder	29	Fair	Poor	242	Western redcedar	48	Fair	Moderate
167	Red alder	75	Fair	Poor	243	Maple	31	Fair	Moderate
168	Red alder	41	Fair	Poor	244	Western redcedar	114	Fair	Moderate
169	Red alder	38	Fair	Poor	245	Red alder	35	Dying	Poor
170	Red alder	84	Fair	Poor	246	Red alder	43	Dying	Poor
171	Birch	42	Dying	Poor	247	Red alder	58	Dying	Poor
172	Sweetgum	26	Fair	Moderate	248	Red alder	37	Dead	Poor
173	Sweetgum	21	Fair	Moderate	249	Red alder	50	Fair	Poor
174	Redwood	50	Good	Good	250	Red alder	25	Dead	Poor
175	Redwood	50	Good	Good	251	Red alder	95	Poor	Poor
176	Redwood	50	Good	Good	252	Ironwood	42	Fair	Moderate

Drawing No.	Sheet Title	Project Title	Project Address
1 of 2	Aerial Site Map	Arborist Report for a Tree Resource Evaluation	Winskill Park - 5575 9 Ave, Delta
Page 15 of 19	Revision No. N/A	Project No. City of Delta 20201202-1 PO 2097915	Client Name Clayton Nybo - Acting Superintendent of Horticulture and Urban Forestry

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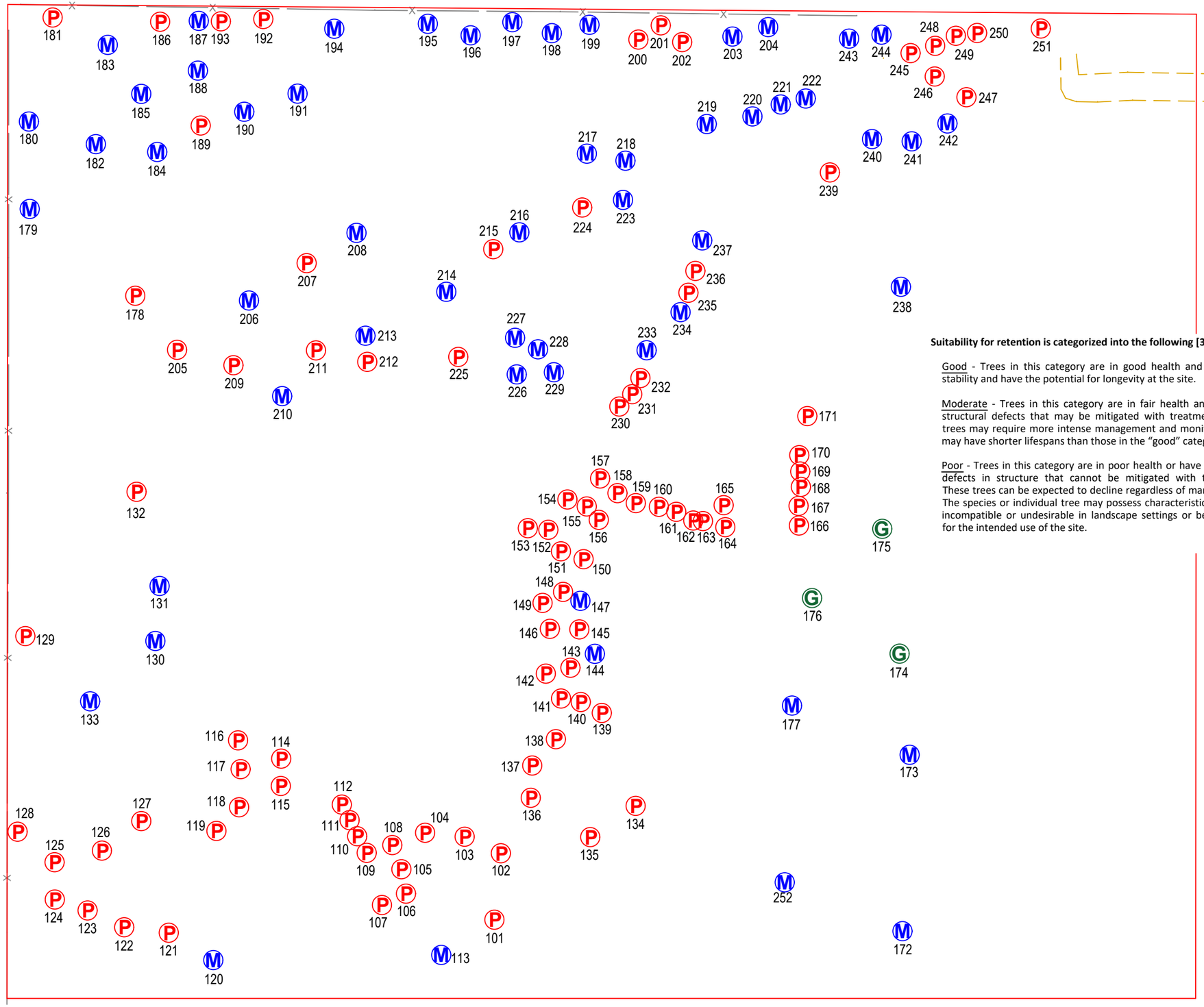
Production Date December 14th, 2020

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LEGEND

- Area of Assessment
- 101 Tree Reference
- Tree Location



Suitability for retention is categorized into the following [3] classes:

Good - Trees in this category are in good health and structural stability and have the potential for longevity at the site.

Moderate - Trees in this category are in fair health and/or have structural defects that may be mitigated with treatment. These trees may require more intense management and monitoring and may have shorter lifespans than those in the “good” category.

Poor - Trees in this category are in poor health or have significant defects in structure that cannot be mitigated with treatment. These trees can be expected to decline regardless of management. The species or individual tree may possess characteristics that are incompatible or undesirable in landscape settings or be unsuited for the intended use of the site.

Tree ID	Common Name	DBH (cm)	Health Condition	Retention Suitability	Tree ID	Common Name	DBH (cm)	Health Condition	Retention Suitability
101	Willow	55	Poor	Poor	177	Pine	55	Fair	Moderate
102	Red alder	32	Dead	Poor	178	Western redcedar	115	Poor	Poor
103	Red alder	20	Dead	Poor	179	Western redcedar	94	Fair	Moderate
104	Red alder	37	Dying	Poor	180	Western redcedar	71	Fair	Moderate
105	Black cottonwood	65	Fair	Poor	181	Western redcedar	104	Fair	Poor
106	Willow	25	Dying	Poor	182	Western redcedar	71	Fair	Moderate
107	Red alder	34	Poor	Poor	183	Western redcedar	42	Fair	Moderate
108	Red alder	30	Fair	Poor	184	Western redcedar	49	Fair	Moderate
109	Red alder	45	Fair	Poor	185	Western redcedar	90	Fair	Moderate
110	Red alder	44	Fair	Poor	186	Red alder	62	Poor	Poor
111	Red alder	48	Dead	Poor	187	Western redcedar	60	Fair	Moderate
112	Red alder	27	Dead	Poor	188	Western redcedar	44	Fair	Moderate
113	Pine	25	Fair	Moderate	189	Red alder	33	Fair	Poor
114	Black cottonwood	36	Fair	Poor	190	Western redcedar	73	Fair	Moderate
115	Black cottonwood	31	Fair	Poor	191	Ironwood	42	Fair	Moderate
116	Black cottonwood	56	Fair	Poor	192	Oak	38	Fair	Poor
117	Black cottonwood	30	Fair	Poor	193	Red alder	50	Dead	Poor
118	Black cottonwood	28	Fair	Poor	194	Western redcedar	140	Fair	Moderate
119	Black cottonwood	95	Fair	Poor	195	Western redcedar	49	Fair	Moderate
120	Linden	23	Fair	Moderate	196	Western redcedar	138	Fair	Moderate
121	Red alder	40	Dying	Poor	197	Western redcedar	73	Fair	Moderate
122	Black cottonwood	34	Fair	Poor	198	Oak	56	Fair	Moderate
123	Black cottonwood	60	Dead	Poor	199	Western redcedar	65	Fair	Moderate
124	Black cottonwood	85	Fair	Poor	200	Red alder	82	Fair	Poor
125	Black cottonwood	24	Fair	Poor	201	Birch	36	Fair	Poor
126	Black cottonwood	62	Fair	Poor	202	Oak	70	Poor	Poor
127	Black cottonwood	35	Fair	Poor	203	Western redcedar	70	Fair	Moderate
128	Maple	50	Fair	Poor	204	Western redcedar	64	Fair	Moderate
129	Maple	70	Fair	Poor	205	Red alder	91	Poor	Poor
130	Deodar cedar	24	Fair	Moderate	206	Western redcedar	84	Fair	Moderate
131	Linden	35	Fair	Moderate	207	Red alder	44	Fair	Poor
132	Bigleaf maple	230	Fair	Poor	208	Oak	25	Fair	Moderate
133	Bigleaf maple	103	Fair	Moderate	209	Red alder	83	Fair	Poor
134	Black cottonwood	30	Fair	Poor	210	Douglas-fir	23	Fair	Moderate
135	Willow	43	Poor	Poor	211	Red alder	55	Fair	Poor
136	Red alder	33	Fair	Poor	212	Birch	43	Fair	Poor
137	Red alder	23	Poor	Poor	213	Oak	35	Fair	Moderate
138	Black cottonwood	55	Fair	Poor	214	Birch	88	Fair	Moderate
139	Black cottonwood	60	Fair	Poor	215	Red alder	47	Fair	Poor
140	Black cottonwood	31	Poor	Poor	216	Birch	48	Fair	Moderate
141	Black cottonwood	136	Fair	Poor	217	Western redcedar	76	Fair	Moderate
142	Red alder	33	Fair	Poor	218	Birch	34	Fair	Moderate
143	Black cottonwood	140	Fair	Poor	219	Western redcedar	35	Fair	Moderate
144	Hornbeam	24	Fair	Moderate	220	Western redcedar	77	Fair	Moderate
145	Black cottonwood	55	Poor	Poor	221	Western redcedar	72	Fair	Moderate
146	Red alder	25	Fair	Poor	222	Western redcedar	90	Fair	Moderate
147	Hornbeam	26	Fair	Moderate	223	Western redcedar	59	Fair	Moderate
148	Red alder	60	Dead	Poor	224	Maple	37	Fair	Poor
149	Red alder	21	Poor	Poor	225	Cherry	42	Fair	Poor
150	Red alder	35	Dead	Poor	226	Birch	38	Fair	Moderate
151	Red alder	45	Fair	Poor	227	Western redcedar	52	Fair	Moderate
152	Red alder	21	Dead	Poor	228	Birch	22	Fair	Moderate
153	Red alder	50	Fair	Poor	229	Western redcedar	58	Fair	Moderate
154	Red alder	37	Fair	Poor	230	Maple	86	Fair	Poor
155	Black cottonwood	90	Fair	Poor	231	Birch	43	Fair	Poor
156	Black cottonwood	80	Fair	Poor	232	Maple	52	Fair	Poor
157	Red alder	24	Poor	Poor	233	Maple	57	Fair	Moderate
158	Red alder	34	Dead	Poor	234	Western redcedar	70	Fair	Moderate
159	Red alder	50	Dead	Poor	235	Maple	39	Fair	Poor
160	Red alder	33	Poor	Poor	236	Birch	40	Fair	Poor
161	Red alder	29	Fair	Poor	237	Western redcedar	79	Fair	Moderate
162	Red alder	38	Fair	Poor	238	Deodar cedar	41	Fair	Moderate
163	Red alder	28	Fair	Poor	239	Maple	95	Dying	Poor
164	Red alder	41	Poor	Poor	240	Western redcedar	56	Fair	Moderate
165	Red alder	30	Fair	Poor	241	Western redcedar	31	Fair	Moderate
166	Red alder	29	Fair	Poor	242	Western redcedar	48	Fair	Moderate
167	Red alder	75	Fair	Poor	243	Maple	31	Fair	Moderate
168	Red alder	41	Fair	Poor	244	Western redcedar	114	Fair	Moderate
169	Red alder	38	Fair	Poor	245	Red alder	35	Dying	Poor
170	Red alder	84	Fair	Poor	246	Red alder	43	Dying	Poor
171	Birch	42	Dying	Poor	247	Red alder	58	Dying	Poor
172	Sweetgum	26	Fair	Moderate	248	Red alder	37	Dead	Poor
173	Sweetgum	21	Fair	Moderate	249	Red alder	50	Fair	Poor
174	Redwood	50	Good	Good	250	Red alder	25	Dead	Poor
175	Redwood	50	Good	Good	251	Red alder	95	Poor	Poor
176	Redwood	50	Good	Good	252	Ironwood	42	Fair	Moderate

Drawing No.	Sheet Title		Project Title	Project Address
2 of 2	Tree Retention Suitability Map		Arborist Report for a Tree Resource Evaluation	Winskill Park - 5575 9 Ave, Delta
			Project No.	Client Name
Page 16 of 19	Revision No.	N/A	City of Delta 20201202-1 PO 2097915	Clayton Nybo - Acting Superintendent of Horticulture and Urban Forestry

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Production Date December 14th, 2020

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LEGEND

—	Area of Assessment	G	Retention Suitability - Good
101	Tree Reference	M	Retention Suitability - Moderate
		P	Retention Suitability - Poor

E. Qualitative Tree Risk Assessment Guidelines (TRAQ)

Qualitative risk assessment is the process of using ratings of the likelihood and consequences of an event to determine a risk level and evaluate the level of risk against qualitative criteria.

This matrix is used to ***estimate the likelihood of a tree failure impacting a specified target***				
Likelihood of Failure	*Likelihood of Impact*			
	Very Low	*Low*	*Medium*	*High*
Imminent	Unlikely	Somewhat likely	Likely	Very likely
Probable	Unlikely	Unlikely	Somewhat likely	Likely
Possible	Unlikely	Unlikely	Unlikely	Somewhat likely
Improbable	Unlikely	Unlikely	Unlikely	Unlikely

Likelihood of Failure

Improbable – the tree or tree part is not likely to fail during normal weather conditions and may not fail in extreme weather conditions within the specified time frame.

Possible – failure may be expected in extreme weather conditions, but it is unlikely during normal weather conditions within the specified time frame.

Probable – failure may be expected under normal weather conditions within the specified time frame.

Imminent – failure has started or is most likely to occur in the near future, even if there is no significant wind or increased load. This is an infrequent occurrence for a risk assessor to encounter, and it may require immediate action to protect people from harm. The imminent category overrides the stated time frame.

Likelihood of Impact

Very low – the chance of the failed tree or tree part impacting the specified target is remote. Likelihood of impact could be very low if the target is outside the anticipated target zone or if occupancy rates are rare. Another example of very low likelihood of impact is people in an occasionally used area with protection against being struck by the tree failure due to the presence of other trees or structures between the tree being assessed and the targets.

Low – there is a slight chance that the failed tree or tree part will impact the target. This is the case for people in an occasionally used area with no protection factors and no predictable direction of fall, a frequently used area that is partially protected, or a constant target that is well protected from the assessed tree. Examples are vehicles on an occasionally used service road next to the assessed tree, or a frequently used street that has a large tree providing protection between vehicles on the street and the assessed tree.

Medium – the failed tree or tree part could impact the target but is not expected to do so. This is the case for people in a frequently used area when the direction of fall may or may not be toward the target. An

example of a medium likelihood of impacting people could be passengers in a car traveling on an arterial street (frequent occupancy) next to the assessed tree with a large, dead branch over the street.

High – the failed tree or tree part is likely to impact the target. This is the case when there is a constant target with no protection factors, and the direction of fall is toward the target.

Risk rating matrix showing the ***level of risk as the combination of likelihood of a tree failing and impacting a specified target, and severity of the associated consequences.***

Likelihood of Failure and Impact	*Consequences of Failure*			
	Negligible	*Minor*	*Significant*	*Severe*
Very likely	Low	Moderate	High	Extreme
Likely	Low	Moderate	High	High
Somewhat likely	Low	Low	Moderate	Moderate
Unlikely	Low	Low	Low	Low

Consequences of Failure

Negligible – no personal injury, low-value property damage, or disruptions that can be replaced or repaired.

Minor – minor personal injury, low-to-moderate value property damage, or small disruption of activities.

Significant – substantial personal injury, moderate- to high-value property damage, or considerable disruption of activities.

Severe – serious personal injury or death, high-value property damage, or major disruption of important activities.

Overall Tree Risk Rating

Low – some trees with this level of risk may benefit from mitigation and maintenance measures, but immediate action is not usually required. Tree risk assessors may recommend retaining and monitoring these trees, as well as mitigation that does not include removal of the tree.

Moderate – the tree risk assessor may recommend mitigation and/or retaining and monitoring. The decision for mitigation and timing of treatment depends upon the risk tolerance of the tree owner or manager.

High – tree risk assessor should recommend mitigation measures be taken as soon as is practical. The decision for mitigation and timing of treatment depends upon the risk tolerance of the tree owner or risk manager.

Extreme – tree risk assessor should recommend that mitigation measures be taken as soon as possible. In some cases, this may mean immediate restriction of access to the target zone area to avoid personal injury.

F. Limitations of this Assessment

It is BC Plant Health Care Inc.'s policy to attach the following clause regarding limitations. We do this to ensure that developers or owners are clearly aware of what is technically and professionally realistic in retaining trees.

The assessment of the trees presented in this report has been made using accepted arboricultural techniques. These include a visual examination of the above-ground parts of each tree for structural defects, scars, external indications of decay such as fungal fruiting bodies, evidence of insect attack, discolored foliage, the condition of any visible root structures, the degree and direction of lean (if any), the general condition of the tree(s) and the surrounding site, and the proximity of property and people. Except where specifically noted in the report, none of the trees examined were dissected, cored, probed, or climbed, and detailed root crown examinations involving excavation were not undertaken.

Notwithstanding the recommendations and conclusions made in this report, it must be raised that trees are living organisms, and their health and vigor constantly change over time. They are not immune to changes in site conditions, or seasonal variations in the weather conditions.

While reasonable efforts have been made to ensure that the trees recommended for retention are healthy, no guarantees are offered, or implied, that these trees, or any parts of them, will remain standing. It is both professionally and practically impossible to predict with absolute certainty the behavior of any single tree or group of trees or their component parts in all circumstances. Inevitably, a standing tree will always pose some risk. Most trees have the potential for failure in the event of adverse weather conditions, and this risk can only be eliminated if the tree is removed.

Although every effort has been made to ensure that this assessment is reasonably accurate, the trees should be re-assessed periodically. The assessment presented in this report is valid at the time of inspection.