2008 Tree Inventory for Cascade Park

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Summary

The City of Renton, Washington, engaged the services of Tree Resource, Incorporated to perform a physical inventory of the trees in Cascade Park. Cascade Park, located at 16165 126th Avenue SE, in the Benson Hill neighborhood. The Benson Hill neighborhood was annexed into the City of Renton in March 2008. It was about that time when Cascade Park was purchased from King County.

Tree Resource collected data on each tree within the park boundaries, identified high risk trees with paint, trees recommended for immediate removal, and indicated on a park survey the approximate location of each tree in the park. The data collected was transferred to an Excel spreadsheet. This report provides a summary of the information collected.

Current stand conditions suggests a natural succession occurring throughout the park where pioneer species predominate but younger, more shade tolerant species growing in the understory. The park has thirteen (13) trees recommended for immediate removal. Most of the trees identified for removal can be found adjacent to surrounding homes or near the walking paths in the park. Also, there are a number of trees with ivy attached to the trunks and these have been noted for ivy removal. There are many trees that are in poor condition, but with no recommendation for action, due to a lack of targets and these are considered wildlife trees. Continued tree care should be limited to some minor pruning, invasive removal and monitoring unless otherwise noted in this report.

There are a total of 370 trees of which 195 are black cottonwood trees representing 53% of the total species composition. Other pioneer species include willow, alder, cherry and poplar. There are scattered Douglas fir trees that comprise 11% of the species. Overall, the average age of the dominant trees is 50 years old.

Introduction

Cascade Park is considered a neighborhood park. There is a children's play area near the southeast entrance to the park. A soft-surface walking path meanders through the central lawn and runs south to north. The outer edge of the park property is wrapped in native vegetation containing mixed stands of pioneer species. Private property surrounds the park on three sides with a pipeline easement along the northern property boundary. The western half of the park slopes down to the lawn from the adjoining neighborhood. The eastern treed area is a large, flat wetland that holds standing water during the wetter months of the year.

The scope of work for the inventory was as follows:

1. Identify all high-risk trees by number, diameter at breast height (D.B.H.) and species abbreviation on a park survey in an electronic format (provided by the City).
2. Identify approximate tree stand boundaries and label each stand on a park survey A through E.
3. Collect the following information for each tree:
    a. Tree Number
    b. Tree Species by scientific name
    c. Tree Diameter – D.B.H.
    d. Tree Condition Rating by percentage using increments of ten (e.g. 0, 10, 20, 100% etc.)
    e. Problem Identification (e.g. leaning, hollow, top damage, etc.)
    f. Treatment Recommendation (e.g. remove, monitor or others)
    g. Treatment Priority ranking
    h. Location of Tree by stand
4. Provide the information collected in #3 above in table format (Excel Spreadsheet or Access Database).
5. Mark with white tree marking paint those trees identified for immediate removal. Paint mark shall be at the lowest point on the stem, no higher than the root collar.
6. Provide a final report that contains information on general stand conditions, a park survey identifying all high-risk trees, a table of all trees and those identified as high-risk trees and an assessment of the information collected.

Trees smaller than five (5") inches in diameter were not counted in the inventory.

Tree locations recorded on the park survey are approximate.

Current Stand Conditions

The trees in the park all appear to be of similar age to the surrounding neighborhood, approximately fifty years old or younger. The predominant tree species is cottonwood, *Populus trichocarpa,* that thrives in the wet areas of the park. Also there is also a large number of native willows, *Salix species*, and alders, *Alnus rubra*, trees that generally

grow in wetter conditions. On the upper slopes along the western side of the park are found naturally occurring cottonwoods, alders, cherries, (*Prunus species*), maples, (*Acer species*) and conifers. There are a few non native trees such as Lombardy poplar, *Populus nigra 'Italica'*, pin oak *Quercus palustris*, and London plane tree *Platanus x Acerifolia* that appear to have been planted when the park and surrounding neighborhood were new.

The woodland understory is heavily vegetated with Himalayan blackberry, *Rubus discolor*, and English Ivy, *Hedera helix*, both considered an invasive species. The wetland areas of the park hold an enormous amount of water that store and slowly release the flow of water, protecting the surrounding neighborhood from flooding.

Methods and Analysis

The data collection was performed by Mike Harrell, ISA Certified Arborist PN-6448A and Zeb Haney, Board Certified Master Arborist PN-5840B, using a diameter tape marked in tenths of inches. Diameter measurements were taken at approximately 4.5 feet from ground level and were rounded to the nearest one-half inch.

Tree inspection was performed by visual assessment from the ground, viewing all sides of the tree, any surface roots and the tree crown above. Defects in any part of the tree reduced the overall condition of a tree. A relative score using factors of ten, from ten to one hundred percent, was given for each tree condition. A tree was catalogued by one of five stand locations (A through E), tree identification number, species, diameter, condition percentage, treatment recommendation, priority of treatment and problems noted. This information was transferred to an Excel spreadsheet. Each tree was numbered on the Cascade Park Record of Survey by approximate location.

There are 370 total trees counted in the park. Table 1 provides the number of species by diameter classes.

Table 1. Species by Diameter Class

Number of trees by Species and DBH group						
Species	Total	0 - 8"	9 - 12"	12 - 18"	19 - 26"	26+
Acer macrophyllum	1		1			
Acer platanoides	1		1			
Alnus rubra	50	16	24	8	2	
Arbutus menziesii	1	1				
Crataegus sp.	1	1				
Platanus X Acerifolia	3		2			1
Populus nigra 'Italica'	6	1	3	1	1	
Populus trichocarpa	195	19	32	52	53	39
Prunus sp.	16	11	3	1	1	
Pseudotsuga menziesii	41	9	11	12	8	1
Quercus palustris	1	1				
Salix sp.	50	12	12	20	3	3
Sorbus aucuparia	3	2	1			
Tsuga heterophylla	1		1			
Total	**370**	**73**	**91**	**94**	**68**	**44**

The five stands contain the following number of trees:

A. 45 trees

B. 93 trees

C. 28 trees

D. 189 trees

E. 15 trees

Tree condition is related to the health of the trees, presence of decay and risk. The following is a summary of the number of trees by condition class in ten percent increments.

10% - 7 trees

20% - 1 tree

30% - 4 trees

40% - 11 trees

50% - 26 trees

60% - 78 trees

70% - 188 trees

80% - 44 trees

90% - 1 tree

Seventy-four (74) trees were noted to have problems. The problems noted are:

1. Turf at the base
2. wounds
3. co-dominant trunks
4. broken and hanging branches
5. lawn mower/line trimmer damage
6. rot or decay
7. heavy lean
8. broken or missing tops
9. dead

The trees were prioritized according to treatment for future action using a scale from 1 to 5, with 1 being the most urgent and 5 being low priority as follows:

Priority 1.	12 trees
Priority 2.	2 trees
Priority 3.	23 trees
Priority 4.	65 trees
Priority 5.	268 trees

Trees selected for removal were:

1. Alnus rubra, # B-67
2. Populus trichocarpa #B-17
3. Populus trichocarpa #B-30
4. Populus trichocarpa #B-68
5. Populus trichocarpa #B-83
6. Populus trichocarpa #B-93
7. Salix species #A-17
8. Salix species #A-18
9. Salix species #A-20
10. Salix species #A-27
11. Salix species #A-29
12. Salix species #A-41
13. Tsuga heterophylla #D-71

Conclusions

Overall, Cascade Park has a healthy mix of trees in various stages of development with some in gradual decline. None of the trees appear to be older than fifty years. Most trees are relatively young and growing well. There will be decline of some trees especially near the middle of the wetter native areas, as well as potential for uprooting of some trees growing in saturated soils. The wetlands are important to storm water management for the surrounding neighborhood and these areas should be preserved in their natural state. As the pioneer trees mature and decline, the next successional

species of trees, Douglas-fir, will contribute an important function in the eco-system of the uplands areas of the park.

Recommendations

Trees that are marked for removal should be removed immediately, with cut material being left within the natural areas to decay and provide habitat. Priority of removal should be those trees closest to the homes along the east side of the park to deal with any issues of risk to adjacent properties.

Trees noted for pruning and recommended for removal of ivy from the trunk should be given the next priority. These trees were usually located near active trails and/or the public use areas of the park. English Ivy and Himalayan blackberry should be removed and controlled. A non-chemical approach to control such as utilizing goats, especially in the more sensitive wetlands is encouraged.

Monitoring wildlife trees should occur yearly. Leaving standing dead or damaged trees for wildlife is beneficial. Such tree should be selected in areas not likely to be used and away from targets. Removing such trees should occur when the risk of falling onto structures, pathways, park lawn areas or into private property could occur.

Appendix A

Inventory Data

Location	Tree #	Species	DBH	Condition %	Treatment	Priority	Problems
A	1	Pseudotsuga menziesii	18,00	70	prune	3	Turf, trunk wound
A	2	Pseudotsuga menziesii	15,00	70	prune	3	turf, co-dominant, dogleg on co-dominant
A	3	Pseudotsuga menziesii	22,00	60	prune	2	lots of broken branches, hangers, small tear out
A	4	Pseudotsuga menziesii	19,00	80	prune	3	some old lawn mower scalping on exposed roots
A	5	Populus nigra 'Italica'	8,00	80	none	5	
A	6	Populus nigra 'Italica'	11,00	80	none	5	
A	7	Populus nigra 'Italica'	11,00	80	none	5	
A	8	Populus nigra 'Italica'	12,00	80	none	5	
A	9	Salix sp.	14,00	60	prune off fence	3	
A	10	Populus trichocarpa	15,00	80	none	5	
A	11	Populus trichocarpa	21,50	70	none	5	co-dominant
A	12	Populus trichocarpa	32,00	80	prune	4	
A	13	Populus trichocarpa	26,50	80	prune	4	
A	14	Populus trichocarpa	19,50	40	remove	3	
A	15	Populus trichocarpa	34,50	70	prune	4	
A	16	Salix sp.	8,00	60	none	5	
A	17	Salix sp.	17,00	40	remove	1	rot, over trail
A	18	Salix sp.	11,50	40	remove	1	rot, over trail
A	19	Salix sp.	13,00	60	prune	4	
A	20	Salix sp.	13,00	60	remove	1	rot, over trail
A	21	Populus trichocarpa	27,00	70	none	5	
A	22	Populus trichocarpa	15,00	70	none	5	
A	23	Salix sp.	14,00	60	prune	4	
A	24	Salix sp.	12,00	70	none	5	
A	25	Salix sp.	19,50	50	prune	3	
A	26	Salix sp.	13,00	70	none	5	
A	27	Salix sp.	12,00	60	remove	1	rot, over trail
A	28	Salix sp.	14,00	70	ivy	3	
A	29	Salix sp.	13,50	40	remove	1	rot, over trail
A	30	Populus trichocarpa	28,00	70	prune	3	
A	31	Populus trichocarpa	16,00	70	none	5	
A	32	Populus trichocarpa	24,00	70	prune	3	
A	33	Populus trichocarpa	21,00	80	none	5	

Location	Tree #	Species	DBH	Condition %	Treatment	Priority	Problems
A	34	Populus trichocarpa	24,00	80	none	5	
A	35	Populus trichocarpa	13,00	70	none	4	
A	36	Populus trichocarpa	21,50	70	none	5	
A	37	Populus trichocarpa	24,00	80	none	5	
A	38	Populus trichocarpa	14,00	60	none	4	
A	39	Populus trichocarpa	31,00	70	ivy	4	
A	40	Populus trichocarpa	24,50	70	prune	3	
A	41	Salix sp.	14,00	40	remove	1	rot, near lawn
A	42	Populus trichocarpa	19,50	70	prune	3	
A	43	Pseudotsuga menziesii	13,00	80	ivy	3	
A	44	Pseudotsuga menziesii	9,00	70	ivy	3	co-dominant
A	45	Populus trichocarpa	17,00	60	none	4	
B	1	Alnus rubra	11,50	40	none	4	
B	2	Pseudotsuga menziesii	15,50	60	none	4	
B	3	Pseudotsuga menziesii	17,50	80	none	5	
B	4	Pseudotsuga menziesii	8,50	80	none	5	
B	5	Alnus rubra	9,00	70	none	5	
B	6	Populus trichocarpa	6,50	70	none	5	
B	7	Pseudotsuga menziesii	6,00	60	none	5	
B	8	Pseudotsuga menziesii	8,00	70	prune	4	
B	9	Populus trichocarpa	23,50	70	prune	4	
B	10	Populus trichocarpa	7,00	60	none	5	
B	11	Pseudotsuga menziesii	12,50	70	none	5	
B	12	Prunus sp.	8,00	70	none	5	
B	13	Populus trichocarpa	14,50	60	none	4	
B	14	Alnus rubra	7,00	70	none	5	
B	15	Pseudotsuga menziesii	12,00	80	none	1	
B	16	Populus trichocarpa	9,50	70	none	5	
B	17	Populus trichocarpa	10,50	0	remove	1	leaning on fir, dead
B	18	Alnus rubra	9,00	70	none	5	
B	19	Populus trichocarpa	10,00	60	none	5	
B	20	Pseudotsuga menziesii	16,00	80	prune	3	
B	21	Populus trichocarpa	25,00	70	prune	3	
B	22	Populus trichocarpa	10,00	50	prune	3	
B	23	Populus trichocarpa	18,00	70	none	5	
B	24	Populus trichocarpa	15,50	60	none	5	
B	25	Populus trichocarpa	14,00	70	prune	4	
B	26	Populus trichocarpa	14,00	70	ivy	4	

Location	Tree #	Species	DBH	Condition %	Treatment	Priority	Problems
B	27	Populus trichocarpa	11,50	20	none	4	
B	28	Prunus sp.	11,00	60	ivy	4	
B	29	Alnus rubra	7,50	50	ivy	4	
B	30	Populus trichocarpa	9,00	0	remove	1	dead
B	31	Acer platanoides	10,00	70	none	5	co-dominant
B	32	Populus trichocarpa	14,50	70	none	5	
B	33	Populus trichocarpa	10,50	60	ivy	3	
B	34	Populus trichocarpa	14,00	70	none	5	
B	35	Alnus rubra	7,50	70	none	5	
B	36	Populus trichocarpa	15,00	70	none	5	
B	37	Populus trichocarpa	16,00	60	prune	4	
B	38	Alnus rubra	7,00	10	none	5	
B	39	Populus trichocarpa	10,50	70	ivy	4	
B	40	Populus trichocarpa	9,00	10	none	5	
B	41	Populus trichocarpa	7,00	10	none	5	
B	42	Populus trichocarpa	12,00	70	none	5	
B	43	Populus trichocarpa	14,00	50	none	4	
B	44	Populus trichocarpa	9,00	70	none	5	
B	45	Populus trichocarpa	16,50	70	ivy	4	
B	46	Populus trichocarpa	23,00	70	ivy	4	
B	47	Populus trichocarpa	22,00	70	none	5	
B	48	Populus trichocarpa	7,50	60	none	5	
B	49	Populus trichocarpa	10,00	70	none	5	
B	50	Populus trichocarpa	8,50	70	none	5	
B	51	Pseudotsuga menziesii	16,00	70	prune	4	
B	52	Pseudotsuga menziesii	14,00	60	ivy	4	
B	53	Populus trichocarpa	16,00	10	none	5	
B	54	Populus trichocarpa	17,00	60	none	5	
B	55	Alnus rubra	9,00	50	none	5	
B	56	Pseudotsuga menziesii	14,00	70	prune	4	
B	57	Populus trichocarpa	10,50	10	none	5	
B	58	Populus trichocarpa	7,50	50	prune	4	
B	59	Populus trichocarpa	8,00	70	none	5	
B	60	Populus trichocarpa	23,00	70	none	5	
B	61	Prunus sp.	15,00	30	none	5	
B	62	Prunus sp.	5,50	50	none	5	
B	63	Prunus sp.	8,00	60	none	5	
B	64	Prunus sp.	7,00	60	none	5	
B	65	Prunus sp.	7,50	70	none	5	
B	66	Alnus rubra	6,00	40	none	5	
B	67	Alnus rubra	6,50	40	remove	4	blown top, near lawn
B	68	Populus trichocarpa	14,00	0	remove	2	dead, near lawn
B	69	Populus trichocarpa	23,00	70	none	5	
B	70	Alnus rubra	9,50	60	prune	4	

Location	Tree #	Species	DBH	Condition %	Treatment	Priority	Problems
B	71	Alnus rubra	8,50	60	prune	4	
B	72	Alnus rubra	9,00	60	prune	4	
B	73	Alnus rubra	7,00	50	prune	4	
B	74	Populus trichocarpa	43,00	70	prune	4	multi-stem
B	75	Populus trichocarpa	50,00	70	prune	4	multi-stem
B	76	Populus trichocarpa	30,00	80	none	5	
B	77	Populus trichocarpa	12,50	70	none	5	
B	78	Populus trichocarpa	15,00	70	none	5	
B	79	Populus trichocarpa	23,00	70	prune	4	
B	80	Populus trichocarpa	22,00	70	none	5	
B	81	Populus trichocarpa	13,50	70	none	5	
B	82	Populus trichocarpa	28,50	70	none	5	multi-stem
B	83	Populus trichocarpa	18,50	70	remove	3	heavy lean over lawn
B	84	Populus trichocarpa	18,50	70	none	5	
B	85	Populus trichocarpa	23,00	70	none	5	
B	86	Populus trichocarpa	11,50	70	prune	4	
B	87	Populus trichocarpa	13,50	60	none	4	
B	88	Populus trichocarpa	17,00	70	prune	4	
B	89	Populus trichocarpa	18,00	70	none	5	
B	90	Populus trichocarpa	16,50	70	none	5	
B	91	Populus trichocarpa	22,00	70	none	5	
B	92	Populus trichocarpa	11,50	70	none	5	
B	93	Populus trichocarpa	8,00	0	remove	1	dead, near lawn
C	1	Pseudotsuga menziesii	19,00	80	prune	4	
C	2	Pseudotsuga menziesii	20,00	80	prune	4	
C	3	Populus trichocarpa	13,50	70	none	5	
C	4	Pseudotsuga menziesii	19,50	70	prune	4	co-dominant
C	5	Pseudotsuga menziesii	22,00	80	prune	4	
C	6	Pseudotsuga menziesii	16,00	70	none	5	
C	7	Populus trichocarpa	14,50	60	prune	4	co-dominant
C	8	Platanus X Acerifolia	10,00	80	none	5	multi-stem
C	9	Alnus rubra	7,00	70	none	5	
C	10	Quercus palustris	7,50	80	none	5	
C	11	Alnus rubra	11,50	70	none	5	
C	12	Alnus rubra	11,00	60	none	5	
C	13	Alnus rubra	8,00	60	none	5	
C	14	Alnus rubra	13,00	70	none	5	
C	15	Pseudotsuga menziesii	7,50	80	none	5	
C	16	Alnus rubra	8,00	50	none	5	
C	17	Alnus rubra	11,50	50	none	5	
C	18	Pseudotsuga	5,00	70	none	5	

Location	Tree #	Species	DBH	Condition %	Treatment	Priority	Problems
		menziesii					
C	19	Pseudotsuga menziesii	9,50	70	none	5	
C	20	Pseudotsuga menziesii	10,00	70	none	5	
C	21	Pseudotsuga menziesii	12,00	80	none	5	
C	22	Pseudotsuga menziesii	17,00	60	none	5	blown top
C	23	Alnus rubra	9,00	70	none	5	
C	24	Populus trichocarpa	13,00	60	none	5	
C	25	Acer macrophyllum	11,00	80	none	5	
C	26	Populus trichocarpa	26,50	70	ivy	4	
C	27	Populus trichocarpa	18,00	60	ivy	4	
C	28	Alnus rubra	10,00	60	none	5	
D	1	Pseudotsuga menziesii	17,00	50	none	3	topped under transmission lines
D	2	Populus trichocarpa	22,50	70	ivy	4	
D	3	Populus trichocarpa	30,50	50	none	3	blown top
D	4	Salix sp.	8,50	70	none	5	
D	5	Populus trichocarpa	26,00	70	none	5	
D	6	Alnus rubra	10,00	50	none	5	blown top
D	7	Pseudotsuga menziesii	21,00	60	none	5	
D	8	Pseudotsuga menziesii	24,00	80	none	5	
D	9	Populus trichocarpa	8,50	60	none	5	
D	10	Alnus rubra	12,00	50	none	5	
D	11	Populus trichocarpa	30,00	70	none	5	
D	12	Populus trichocarpa	27,00	70	none	5	
D	13	Populus trichocarpa	36,00	70	none	5	
D	14	Prunus sp.	7,50	70	none	5	
D	15	Salix sp.	12,00	60	none	5	
D	16	Alnus rubra	10,50	70	none	5	
D	17	Salix sp.	11,00	60	prune	4	
D	18	Salix sp.	8,50	50	prune	4	
D	19	Populus trichocarpa	26,50	70	none	5	
D	20	Populus trichocarpa	14,00	70	none	5	
D	21	Prunus sp.	13,00	70	prune	3	plum, multi-stem
D	22	Salix sp.	14,00	60	none	5	
D	23	Populus trichocarpa	11,00	70	none	5	
D	24	Populus trichocarpa	18,50	70	none	5	
D	25	Populus trichocarpa	21,50	70	none	5	
D	26	Pseudotsuga menziesii	9,00	80	none	5	
D	27	Pseudotsuga menziesii	11,00	80	none	5	
D	28	Populus trichocarpa	8,50	70	none	5	

Location	Tree #	Species	DBH	Condition %	Treatment	Priority	Problems
D	29	Populus trichocarpa	28,50	70	none	5	
D	30	Populus trichocarpa	20,00	70	none	5	
D	31	Populus trichocarpa	29,50	70	none	5	
D	32	Platanus X Acerifolia	12,50	80	prune	4	
D	33	Alnus rubra	21,00	60	none	5	
D	34	Platanus X Acerifolia	27,50	80	prune	4	
D	35	Prunus sp.	24,00	70	none	5	multi-stem
D	36	Salix sp.	14,50	0	none	5	dead
D	37	Salix sp.	13,00	0	none	5	dead
D	38	Populus trichocarpa	33,00	60	none	5	
D	39	Populus trichocarpa	41,00	70	none	5	multi-stem
D	40	Salix sp.	13,00	60	none	5	
D	41	Populus trichocarpa	32,00	70	none	5	
D	42	Alnus rubra	17,50	60	none	5	
D	43	Populus trichocarpa	23,50	70	none	5	
D	44	Salix sp.	30,00	60	none	5	multi-stem
D	45	Salix sp.	40,00	70	none	5	multi-stem
D	46	Salix sp.	32,00	60	none	5	multi-stem
D	47	Populus trichocarpa	8,50	70	none	5	
D	48	Populus trichocarpa	30,50	70	none	5	
D	49	Populus trichocarpa	17,00	70	none	5	
D	50	Populus trichocarpa	11,00	70	none	5	
D	51	Populus trichocarpa	20,50	70	none	5	
D	52	Populus trichocarpa	20,00	70	none	5	
D	53	Populus trichocarpa	14,50	70	none	5	
D	54	Populus trichocarpa	7,50	60	none	4	heavy lean
D	55	Populus trichocarpa	33,50	70	none	5	
D	56	Alnus rubra	13,00	70	none	5	
D	57	Populus trichocarpa	16,00	50	none	5	hollow base
D	58	Populus trichocarpa	15,50	60	none	5	
D	59	Crataegus sp.	6,50	70	none	5	
D	60	Pseudotsuga menziesii	10,50	70	none	5	
D	61	Populus trichocarpa	10,50	0	none	5	dead
D	62	Populus trichocarpa	24,00	70	none	5	
D	63	Populus trichocarpa	24,00	70	none	5	
D	64	Populus trichocarpa	26,00	70	none	5	
D	65	Populus trichocarpa	19,50	70	none	5	
D	66	Alnus rubra	11,00	70	none	5	
D	67	Pseudotsuga menziesii	9,50	80	none	5	
D	68	Populus trichocarpa	27,50	70	ivy	4	
D	69	Populus trichocarpa	8,50	0	none	5	dead
D	70	Pseudotsuga menziesii	9,50	70	ivy	4	
D	71	Tsuga heterophylla	9,00	0	remove	1	dead
D	72	Populus trichocarpa	14,00	60	none	5	

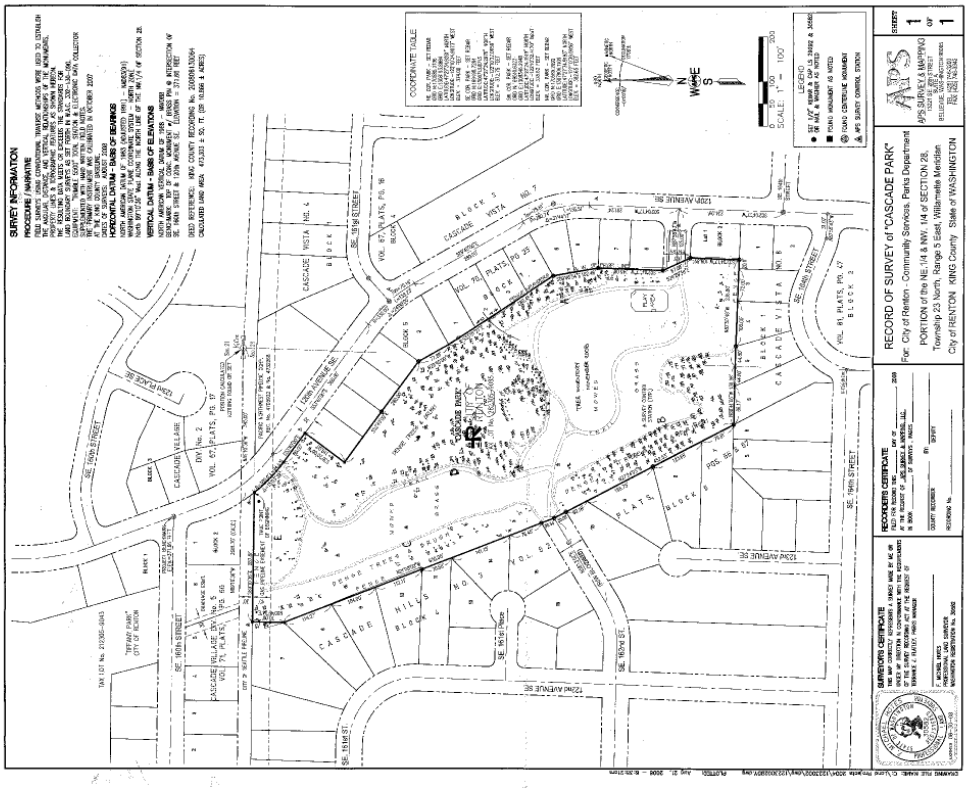
Location	Tree #	Species	DBH	Condition %	Treatment	Priority	Problems
D	73	Populus trichocarpa	24,00	10	monitor	4	snag
D	74	Populus trichocarpa	16,00	60	none	5	
D	75	Alnus rubra	13,00	40	none	5	
D	76	Alnus rubra	7,50	70	none	5	
D	78	Alnus rubra	8,50	60	none	5	
D	79	Pseudotsuga menziesii	33,00	60	ivy, prune	4	
D	80	Populus trichocarpa	38,50	50	monitor	4	co-dominant, broken stem
D	81	Populus trichocarpa	22,50	70	none	5	
D	82	Pseudotsuga menziesii	8,50	70	none	5	
D	83	Alnus rubra	10,50	10	none	5	snag
D	84	Alnus rubra	9,50	60	none	5	
D	85	Alnus rubra	8,00	60	none	5	
D	86	Populus trichocarpa	27,50	30	monitor	4	blown top
D	87	Populus trichocarpa	23,00	70	none	5	
D	88	Populus trichocarpa	28,50	70	none	5	
D	89	Alnus rubra	17,00	70	none	5	
D	90	Populus trichocarpa	41,50	70	none	5	multi-stem
D	91	Populus trichocarpa	30,00	70	none	5	multi-stem
D	92	Populus trichocarpa	32,00	70	none	5	multi-stem
D	93	Salix sp.	14,00	70	none	5	
D	94	Salix sp.	12,00	70	none	5	
D	95	Salix sp.	14,50	60	none	5	
D	96	Populus trichocarpa	13,00	60	none	5	
D	97	Populus trichocarpa	13,00	70	none	5	
D	98	Alnus rubra	8,50	30	none	4	heavy lean
D	99	Alnus rubra	7,50	60	none	5	
D	100	Alnus rubra	11,50	50	none	5	
D	101	Pseudotsuga menziesii	6,40	80	none	5	
D	102	Salix sp.	7,00	60	none	5	
D	103	Pseudotsuga menziesii	8,50	80	none	5	
D	104	Pseudotsuga menziesii	5,50	80	none	5	
D	105	Populus trichocarpa	7,50	60	none	5	
D	106	Populus trichocarpa	8,00	60	none	5	
D	107	Populus trichocarpa	30,00	70	none	5	
D	108	Prunus sp.	6,50	70	none	5	
D	109	Populus trichocarpa	18,50	70	none	5	
D	110	Populus trichocarpa	21,00	70	none	5	
D	111	Populus trichocarpa	10,00	60	none	5	
D	112	Populus trichocarpa	14,50	70	none	5	
D	113	Prunus sp.	5,00	70	none	5	
D	114	Populus trichocarpa	10,50	70	none	5	
D	115	Populus trichocarpa	19,00	70	none	5	

Location	Tree #	Species	DBH	Condition %	Treatment	Priority	Problems
D	116	Populus trichocarpa	16,50	70	prune	4	
D	117	Populus trichocarpa	7,50	60	none	5	
D	118	Populus trichocarpa	10,50	70	none	5	
D	119	Populus trichocarpa	15,50	70	none	5	
D	120	Populus trichocarpa	16,50	70	none	5	
D	121	Populus trichocarpa	20,00	70	none	5	
D	122	Populus trichocarpa	7,00	40	none	5	
D	123	Populus trichocarpa	9,00	60	none	5	
D	124	Populus trichocarpa	14,00	70	none	5	
D	125	Populus trichocarpa	22,00	70	none	5	
D	126	Alnus rubra	10,00	50	none	5	blown top
D	127	Prunus sp.	8,00	60	none	5	
D	128	Populus trichocarpa	12,50	60	none	5	
D	129	Populus trichocarpa	16,50	50	none	3	lean over path
D	130	Populus trichocarpa	31,50	70	none	5	
D	131	Populus trichocarpa	33,50	70	none	5	
D	132	Populus trichocarpa	27,00	60	none	5	lean
D	133	Alnus rubra	14,00	60	none	5	
D	134	Populus trichocarpa	11,50	70	none	5	
D	135	Arbutus menziesii	6,50	70	none	5	
D	136	Salix sp.	16,50	70	none	5	
D	137	Alnus rubra	9,50	60	none	5	
D	138	Salix sp.	19,50	60	none	5	
D	139	Alnus rubra	9,50	50	none	5	
D	140	Alnus rubra	12,50	60	none	5	
D	141	Populus trichocarpa	36,50	70	none	5	
D	142	Alnus rubra	23,00	60	none	5	multi-stem
D	143	Salix sp.	10,00	50	none	5	
D	144	Populus trichocarpa	40,50	70	none	5	
D	145	Alnus rubra	14,00	60	none	5	
D	146	Alnus rubra	15,50	60	none	5	
D	147	Salix sp.	15,00	60	none	5	
D	148	Salix sp.	20,00	50	none	5	
D	149	Prunus sp.	11,00	30	none	5	heavy lean
D	150	Alnus rubra	12,00	40	none	5	decay
D	151	Salix sp.	7,50	70	prune	3	
D	152	Salix sp.	7,50	80	none	5	multi-stem
D	153	Salix sp.	9,50	70	none	5	multi-stem
D	154	Salix sp.	11,50	80	none	5	
D	155	Salix sp.	8,00	80	none	5	
D	156	Salix sp.	9,50	80	none	5	multi-stem
D	157	Alnus rubra	10,00	80	none	5	
D	158	Salix sp.	5,50	80	none	5	
D	159	Salix sp.	6,00	80	none	5	
D	160	Salix sp.	9,00	80	none	5	
D	161	Salix sp.	9,00	70	none	5	
D	162	Salix sp.	14,00	70	none	5	

Location	Tree #	Species	DBH	Condition %	Treatment	Priority	Problems
D	163	Salix sp.	7,00	80	none	5	nurse log
D	164	Salix sp.	4,00	90	none	5	clump
D	165	Sorbus aucuparia	4,00	70	none	5	clump
D	166	Sorbus aucuparia	4,00	70	none	5	clump
D	167	Sorbus aucuparia	11,00	70	none	5	clump
D	168	Salix sp.	7,50	70	none	5	clump
D	169	Salix sp.	13,00	50	none	5	3-stem, decay
D	170	Salix sp.	14,00	60	none	5	standing water
D	171	Populus trichocarpa	7,00	80	none	5	
D	172	Populus trichocarpa	8,00	50	none	5	basal wound
D	173	Populus trichocarpa	30,00	70	none	5	
D	174	Populus trichocarpa	9,00	50	none	5	
D	175	Populus trichocarpa	32,00	70	none	5	large dead wood
D	176	Populus trichocarpa	12,00	70	none	5	lean
D	177	Populus trichocarpa	21,00	70	none	5	lean
D	178	Populus trichocarpa	23,00	70	none	5	
D	179	Populus trichocarpa	9,00	70	none	5	
D	180	Populus trichocarpa	10,00	70	none	5	
D	181	Populus trichocarpa	19,00	70	none	5	
D	182	Populus trichocarpa	21,00	70	none	5	
D	183	Populus trichocarpa	22,00	70	none	5	ivy
D	184	Populus trichocarpa	10,00	70	none	5	
D	185	Prunus sp.	5,00	70	none	5	
D	186	Prunus sp.	7,00	70	none	5	
D	187	Populus trichocarpa	12,00	70	none	5	
D	188	Populus trichocarpa	10,00	70	none	5	
D	189	Populus trichocarpa	40,00	70	none	5	
D	190	Populus trichocarpa	25,00	70	none	5	4-stem in standing water
E	1	Populus trichocarpa	19,00	70	none	5	
E	2	Populus trichocarpa	30,00	70	none	5	
E	3	Populus trichocarpa	50,00	70	none	5	
E	4	Populus trichocarpa	31,00	60	none	4	
E	5	Populus trichocarpa	15,00	60	none	4	
E	6	Populus nigra 'Italica'	15,00	0	none	1	dead
E	7	Populus nigra 'Italica'	25,00	60	none	5	
E	8	Populus trichocarpa	25,00	70	none	5	
E	9	Populus trichocarpa	26,50	70	none	5	
E	10	Populus trichocarpa	14,50	70	none	4	
E	11	Populus trichocarpa	26,00	70	none	4	
E	12	Populus trichocarpa	19,00	70	none	4	
E	13	Populus trichocarpa	22,00	70	none	5	
E	14	Populus trichocarpa	13,50	70	none	5	
E	15	Populus trichocarpa	25,00	60	none	5	

Appendix B

Site Map


SURVEY INFORMATION
PROCEDURE / NARRATIVE
VERTICAL DATUM - BASIS OF ELEVATIONS
COORDINATE TABLE
LEGEND
SCALE 1" = 100' 100 200
RECORD OF SURVEY of "CASCADE PARK"
For: City of Renton - Community Services, Parks Department
PORTION of the NE 1/4 & NW 1/4 of SECTION 28,
Township 23 North, Range 5 East, Willamette Meridian
City of RENTON KING County State of WASHINGTON
SURVEYOR'S CERTIFICATE
RECORDER'S CERTIFICATE
SHEET 1 OF 1
SE 16th ST
SE 19th STREET
SE 19th PLACE
SE 19th Ct
SE 16th Ct
SE 16th PL
SE 16th STREET
SE 18th STREET
SE 18th PL
SE 18th Ct
SE 18th Pl
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