Bowfin Environmental Consulting

168 Montreal Road
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Tel: 613.935.6139

Carmine Zayoun
11654128 Canada Inc.
190 Lisgar Street
Ottawa, Ontario K2P 0C4

July 7, 2020

Re.: Tree Conservation Report for 6171 Hazeldean, Stittsville, Ontario

Mr. Zayoun:

Bowfin Environmental Consulting Inc. (Bowfin) was retained by Latitude Homes to prepare a Tree Conservation Report. This report follows the *City of Ottawa Tree Conservation Report Guidelines*. The field work was completed by Cody Fontaine who has his Fisheries and Wildlife Technology Diplome and has 10 years of experience completing field work. Mr. Fontaine is also a certified Butternut Health Assessor (#723). Bowfin was also retained to complete an Environmental Impact Statement (EIS) and this letter will form part of that report. The EIS was completed by Michelle Lavictoire who has a M.Sc. in Natural Resource Sciences, a B.Sc. in Wildlife Biology and over 23 years of experience in completing natural environment assessments.

The intention of this report is to determine what woody vegetation should be retained and protected on site. In the paragraphs below, we have outlined the background and project description, field methodology and findings and recommendations. Any mitigation measures will also be included in the main body of the EIS.

BACKGROUND AND PROJECT DESCRIPTION

The subject lands are roughly 8.9 ha situated at 6171 Hazeldean Road, Stittsville. They form part of Lot 23 Concession 12 in the Township of Goulbourn (Figure 1). The proposal calls for the development of this parcel into residential development and will require the removal of all trees from the site.

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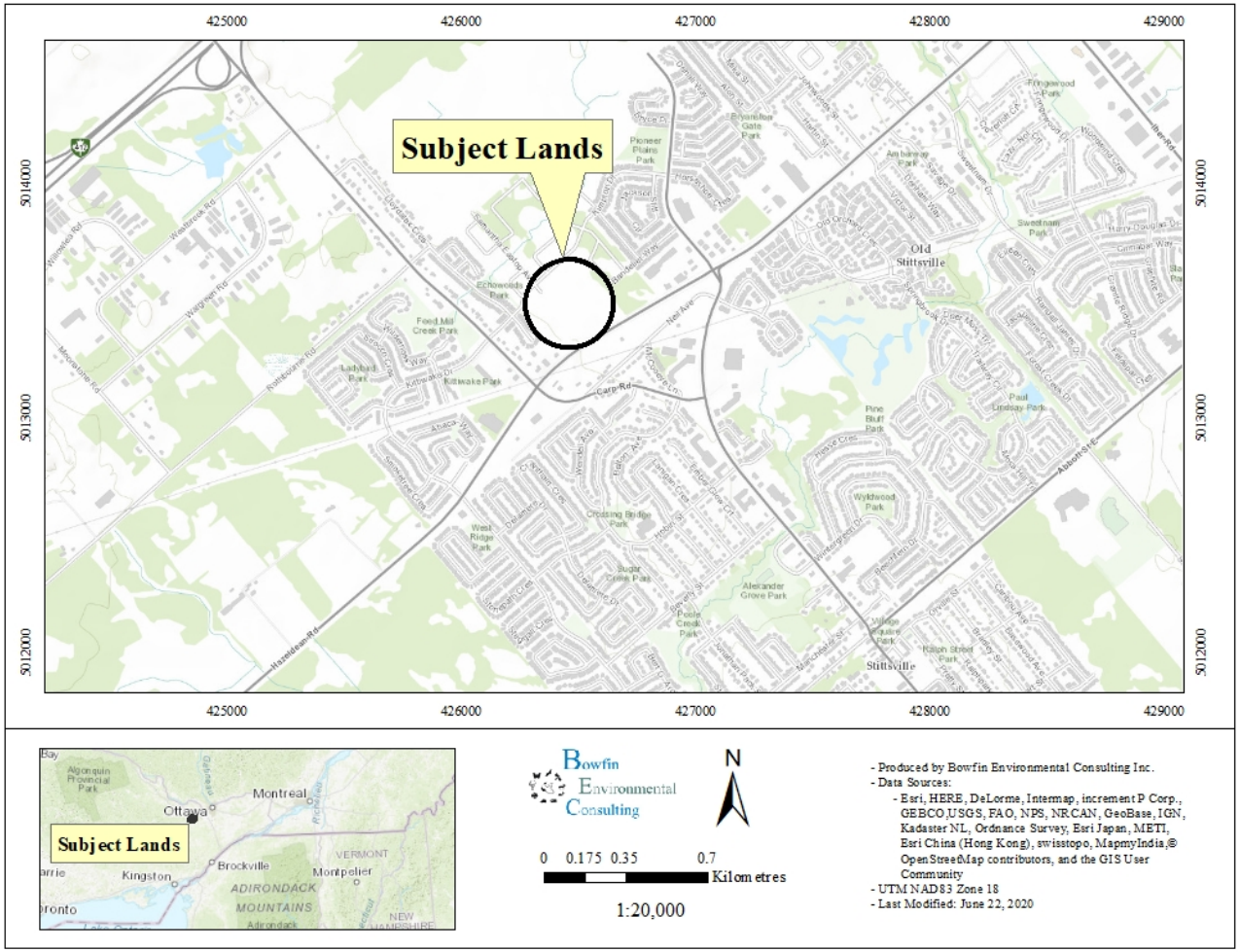
Figure 1: Location of Subject Lands



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METHODOLOGY

The tree inventory was undertaken on June 3rd, 2020 by Cody Fontaine. The weather conditions consisted of overcast skies and light air. The air temperature ranged from 13 to 14°C. During this visit the individual trees were assessed and a description of the environmental value of the trees within the site and their ecological function recorded. Information collected on the individual trees included:

- Their location (GPS coordinates, NAD83);
- Identified to species for native specimens;
- Diameter at breast height (DBH);
- Presence/absence of Butternuts;
- Health; and
- Height

This information is appended at the end of this letter and the locations of the individual trees are shown on Maps 1 and 2. One small stand along with a few copses and a windrow were placed into separate tree groupings with information on the larger trees in each grouping provided in Table 2.

Nomenclature used in this report follows the Southern Ontario Plant List (Bradley, 2007) for both common and scientific names which are based on Newmaster *et al.* (1998). Authorities for scientific names are given in Newmaster *et al.* (1998).

EXISTING CONDITIONS

The site is currently mostly meadow on fill with some areas of bare fill and small groupings of trees. Spoil piles were encountered, mostly on the west side of the site. The overall topography is flat. The adjacent lands are fully developed (residential). The southern edge of the property is bordered by Hazeldean Road. Most of the trees were situated in the northwest corner of the site. Several planted trees were present along the southern border along the sidewalk of Hazeldean Road.

In addition to six groupings of trees, there were 29 individual trees assessed on-site with a DBH of 10 cm or greater. The most common species were: gray birch, trembling and largetooth aspen. A summary of these is provided in Table 1. Most of the trees were healthy apart from some dead aspens.

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Table 1: Summary of Individual Trees On-Site

Species	Count	Size Range (DBH cm)	Height Range (m)	No. Live	No. Unhealthy	No. Dead	No. to be Removed
American Elm	2	19	6	2	0	0	2
Aspen Species	2	30-48	12-13	1	0	1	2
Cherry Species	5	12-24	6-8	5	0	0	5
Cottonwood	4	13-56	7-16	4	0	0	4
Honey Locust	3	10-11	5	3	0	0	3
Largetooth Aspen	5	22-40	15-17	5	0	0	5
Maple Species	3	10-11	5-6	3	0	0	3
Ornamental	1	12	5	1	0	0	1
Trembling Aspen	1	23	10	1	0	0	1
White Pine	1	16	8	1	0	0	1
White Spruce	1	22	9	1	0	0	1
Willow Species	1	100+	6	1	0	0	1
Total	**29**	**10-100+**	**5-17**	**29**	**0**	**1**	**29***

* Note that all trees will be removed, including those described together as groupings (see Table 2).

The following were <u>not present</u> on site:

- Surface water features (i.e. wetlands or watercourses)
- Steep slopes (i.e. valleys or escarpments)
- Valued woodlots
- Greenspace linkages
- High quality, specimen trees
- Rare communities or unique ecological features
- Species at Risk or their habitat

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Map 1: Location of Existing Trees

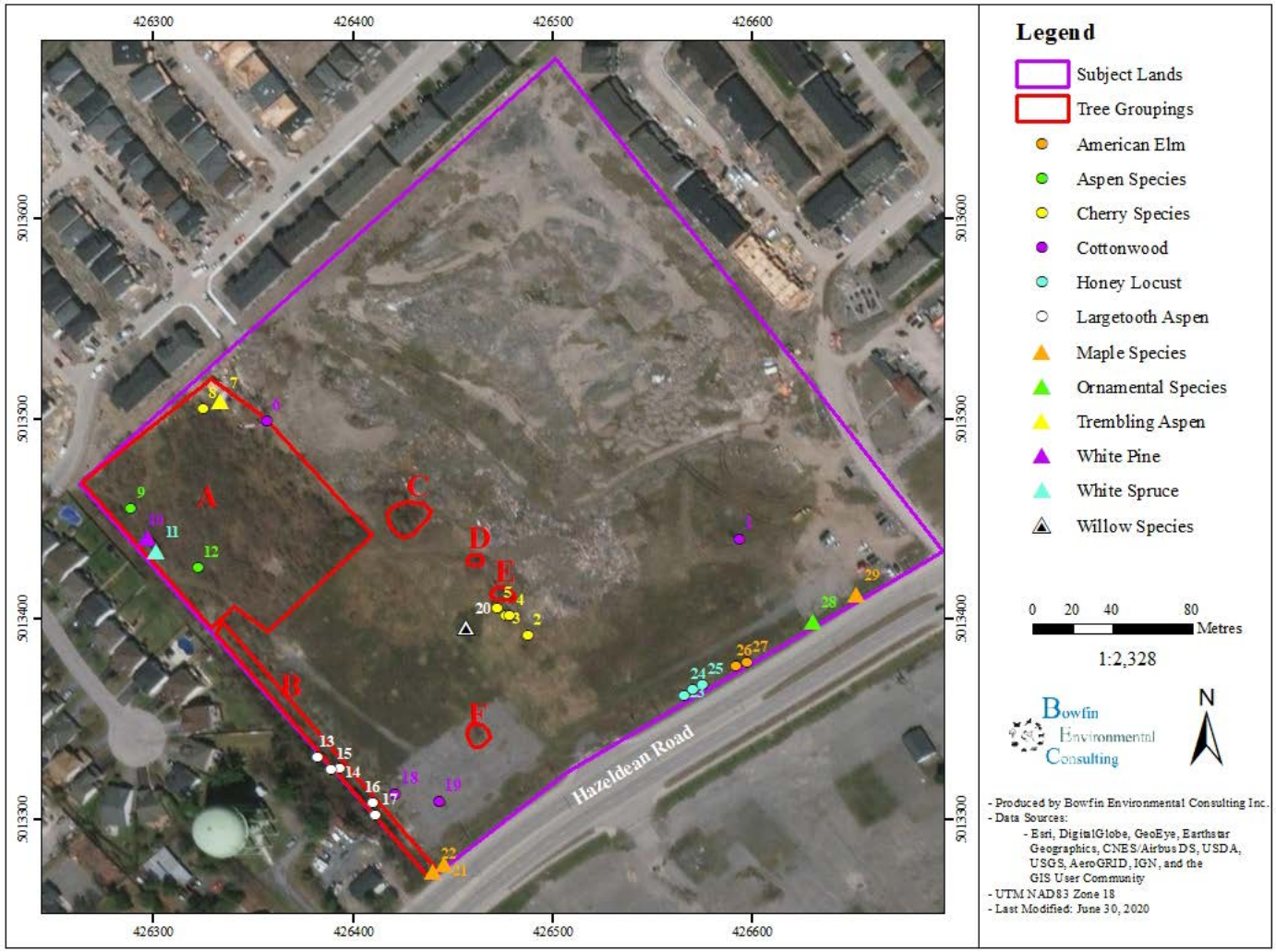

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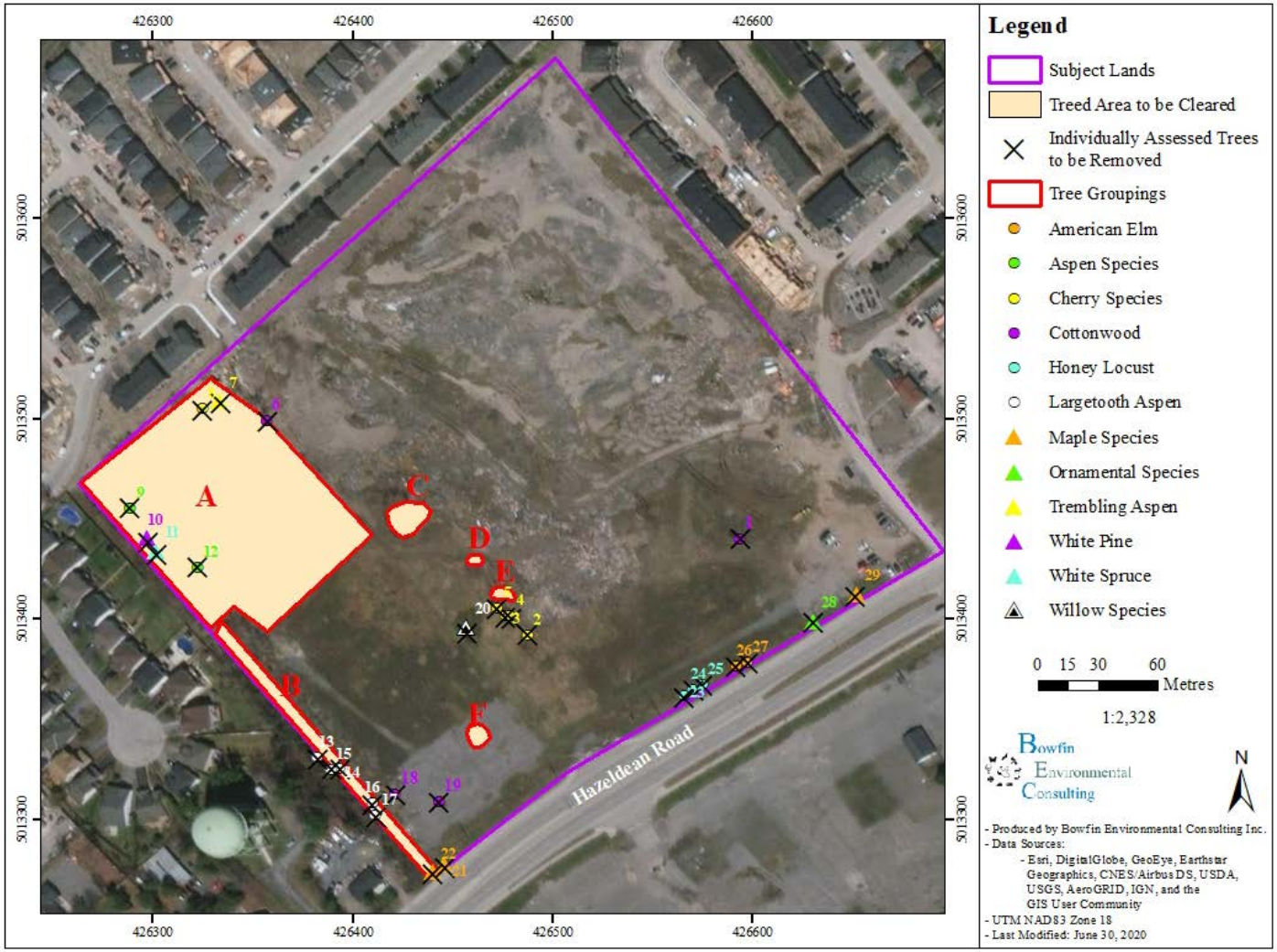
Figure 2: Location of Trees to be Removed



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Summary of Findings

The site and surrounding habitats are disturbed or non-existent. The vast majority of the site was cleared and filled and much of this fill has now revegetated with meadow species. Some trees remain along the west edge of the site, at the property line, along with the one small stand and individual trees elsewhere. In total 29 individual trees were assessed along with the six tree groupings. Overall the health of the trees on site was good. No species of conservation value or at risk were identified and no specimens were recommended for retention.

All trees will be removed. Trees are neighbouring lands are separated by fences and those were not assessed. Grading, infilling and underground works should be limited to outside of Critical Root Zone of the neighbouring lands to prevent root damage to trees meant to be left in place.

Note that the recommended mitigation measures have also been included in the main body of this report.

- A permit for the removal of trees that are 10 cm or larger is required from the City of Ottawa.
- The edge of the property, were not already fenced by neighbours, should be clearly delineated on the site plans and in the field;
- All trees on-site will be removed. When clearing near trees on neighbouring lands, mitigation measures to prevent harm to the root systems of trees adjacent to the proposed works will be implemented to protect them from indirect harm:
    - Sturdy fencing will be installed outside of the Critical Root Zone (CRZ) (defined by the City as 10 x the DBH) of the trunk of the closest trees to the work area.
    - No grading or activities that may cause soil compaction (such as heavy machinery and stockpiling of materials) will be allowed within the fenced area.
    - Furthermore, no machinery maintenance or refueling or stockpiling is permitted within 5 m of the outer edge of this fencing.
    - If necessary, clearing of vegetation within the CRZ will be completed with hand tools.
    - Exhaust fumes from all equipment will be directed away from the canopy of the trees to be retained.
    - If roots of trees, on adjacent lands become exposed during site alterations, they will be buried immediately with soil or covered with filter cloth or woodchips and kept moist until the roots can be buried permanently.
    - Any roots that must be cut will be cut cleanly to allow for healing.
- No signs, notices or posters should be attached to any trees;

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- The removal of trees is to occur between October 1 and March 30. This is to avoid both the active bat season and the breeding bird season.
- Any landscape plans should include native species as much as possible various species could be used including: sugar maple, American basswood, red oak, and white spruce.

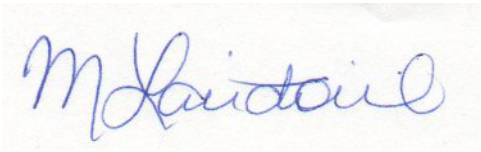
Concluding Statement

There were no trees identified for retention on-site. Removal of trees can proceed provided that the measures above, including obtaining the permit from the City, can take place as planned once work is approved by the City.

I trust that this report will meet your requirements. Should you have any questions or comments, please contact the undersigned.

Sincerely,

Bowfin Environmental Consulting Inc.



Michelle Lavictoire,
Biologist / Principal

References

Bradley, David. 2007. Southern Ontario Vascular Plant Species List. Prepared by Southern Science and Information Section, Ontario Ministry of Natural Resources, Peterborough, Ontario. 57pp.

Newmaster, S.G., A. Lehela, P.W.C Uhlig, S. McMurray and M.J. Oldham. (1998). Ontario plant list. Ontario Ministry of Natural Resources, Ontario Forest Research Institute, Sault Ste. Marie, ON, Forest Research Information Paper No. 123. 550 pp. + appendices.

Official Plan of the City of Ottawa. 2009.

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Table 2: Tree Details

Tree ID	Species	UTM Coordinates (NAD 83)	DBH (cm)	Height (m)	Health	Comments	Ownership	To Be Removed
Tree Groupings								
A	American Elm Cherry Species Gray Birch Largetooth Aspen Trembling Aspen White Birch	18 T 426323 5013425	<10-21	6-12	Good	Most individuals had a dbh <10 cm (average DBH was 5 cm).	Latitude Homes	Y
B	Cherry Species Largetooth Aspen Trembling Aspen White Birch White Pine White Spruce	18 T 426393 5013325	10-16	7-15	Good	80-150 trees in grouping. Average DBH: 13cm	Latitude Homes	Y
C	Gray Birch	18 T 426433 5013456	10-25	7-10	Good	33 trees in grouping. Average DBH: 15 cm	Latitude Homes	Y
D	Cherry Species	18 T 426459 5013428	10-20	7	Good	9 trees in grouping. Average DBH: 15 cm	Latitude Homes	Y
E	Trembling Aspen	18 T 426476 5013409	10-22	7-10	Dead	15 trees in grouping. Average DBH: 17 cm	Latitude Homes	Y
F	Cottonwood	18 T 426461 5013337	15-29	13	Good	6 trees in grouping. Average DBH: 21 cm	Latitude Homes	Y
Individual Trees								

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Tree ID	Species	UTM Coordinates (NAD 83)	DBH (cm)	Height (m)	Health	Comments	Ownership	To Be Removed
1	Cottonwood	18 T 426594 5013440	56	7	Good	4 stems	Latitude Homes	Y
2	Cherry species	18 T 426487 5013392	18	6	Good	3 stems	Latitude Homes	Y
3	Cherry species	18 T 426477 5013402	12	7	Good		Latitude Homes	Y
4	Cherry species	18 T 426478 5013402	24	8	Good	4 stems	Latitude Homes	Y
5	Cherry species	18 T 426472 5013406	18	7	Good	3 stems	Latitude Homes	Y
6	Cottonwood	18 T 426357 5013499	61	16	Good		Latitude Homes	Y
7	Trembling Aspen	18 T 426333 5013510	23	10	Good		Latitude Homes	Y
8	Cherry species	18 T 426325 5013506	13	8	Good		Latitude Homes	Y
9	Aspen species	18 T 426289 5013455	48	12	dead		Latitude Homes	Y
10	White Pine	18 T 426298 5013441	16	8	Good		Latitude Homes	Y
11	White Spruce	18 T 426300 5013436	22	9	Good		Latitude Homes	Y
12	Aspen species	18 T 426323 5013425	30	13	Good	2 stems	Latitude Homes	Y
13	Largetooth Aspen	18 T 426383 5013331	22	16	Good	On west side of ditch	Latitude Homes	Y

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Tree ID	Species	UTM Coordinates (NAD 83)	DBH (cm)	Height (m)	Health	Comments	Ownership	To Be Removed
14	Largetooth Aspen	18 T 426393 5013325	23	15	Good	In ditch	Latitude Homes	Y
15	Largetooth Aspen	18 T 426389 5013325	40	16	Good	In ditch	Latitude Homes	Y
16	Largetooth Aspen	18 T 426410 5013308	27	17	Good	On west side of ditch	Latitude Homes	Y
17	Largetooth Aspen	18 T 426412 5013302	25	15	Good	On west side of ditch	Latitude Homes	Y
18	Cottonwood	18 T 426421 5013314	13	7	Good		Latitude Homes	Y
19	Cottonwood	18 T 426444 5013309	18	8	Good		Latitude Homes	Y
20	Willow species	18 T 426457 5013395	100+	6	Good	20 individual stems branching from main stem. DBH range: 10-26. Some stems running parallel to ground	Latitude Homes	Y
21	Maple species	18 T 426445 5013277	10	5	Good	Planted along sidewalk	Latitude Homes	Y
22	Maple species	18 T 426440 5013274	11	5	Good	Planted along sidewalk	Latitude Homes	Y
23	Honey locust	18 T 426566 5013362	11	5	Good	Planted along sidewalk	Latitude Homes	Y
24	Honey locust	18 T 426570 5013365	11	5	Good	Planted along sidewalk	Latitude Homes	Y
25	Honey locust	18 T 426575 5013368	10	5	Good	Planted along sidewalk	Latitude Homes	Y

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Tree ID	Species	UTM Coordinates (NAD 83)	DBH (cm)	Height (m)	Health	Comments	Ownership	To Be Removed
26	American Elm	18 T 426592 5013377	19	6	Good	Planted along sidewalk	Latitude Homes	Y
27	American Elm	18 T 426596 5013379	19	6	Good	Planted along sidewalk	Latitude Homes	Y
28	Ornamental	18 T 426651 5013412	12	5	Good	Planted along sidewalk	Latitude Homes	Y
29	Maple species	18 T 426629 5013399	11	6	Good	4 stems. Planted along sidewalk	Latitude Homes	Y