

March 22, 2022

Mr. Ryan Patterson
President
Vintage Housing
369 San Miguel Drive, Suite 135
Newport Beach, CA 92660

Subject: Arborist Inventory Letter Report for 102 Natoma Street, City of Folsom, CA

Dear Mr. Patterson:

HELIX Environmental Planning, Inc. (HELIX) has prepared this arborist inventory letter report in support of the proposed 102 Natoma Street project (proposed project) on behalf of Vintage Housing. The purpose of the arborist inventory was to evaluate protected trees and/or other sensitive biological habitats to occur on the project site and/or be impacted by the proposed project. This letter report describes the methods and results of our arborist inventory and provides recommended mitigation measures to reduce impacts.

INTRODUCTION

Project Location and Description

The approximately 4.86-acre project site (also referred to as the Study Area) is located within the City of Folsom approximately 350-feet northeast of the intersection of Fargo Way and Natoma Street in Sacramento County, CA (Figure 1). The approximate center of the site is latitude 38.683517 and longitude -121.158532, NAD 83. The approximate boundary of the project site depicted on aerial imagery is included as Figure 2. All figures are included in Attachment A.

The proposed project intends to construct and operate a senior living community on the subject parcel.

METHODS

Studies conducted in support of this report included an arborist inventory as conducted by an arborist certified by the International Society of Arboriculture (ISA).

Arborist Inventory

The arborist inventory was conducted on September 24, 2020 by HELIX Biologist and ISA Certified Arborist Stephanie McLaughlin, M.S. (WE-12922A). Woody plants in the project area with a trunk diameter of at least 4-inches at 4.5-feet above grade (diameter at breast height) were located and assessed. A diameter tape or calipers were used to verify each trunk diameter. The measurement from the trunk to the end of the longest lateral limb was estimated and used as the dripline radius. All

accessible trees were numbered with a pre-printed aluminum tag. Approximate trunk locations were mapped using a sub-meter accurate global positioning system (GPS). Approximate tree locations are identified in Figure 3 and detailed tree data may be found in Attachment B.

The condition of each tree was rated on a scale of 1 to 5, with 1 indicating poor condition, 3 indicating fair condition, and 5 indicating good condition. The rating considers factors health and structural factors such as the size, color, and density of the foliage; the amount of deadwood within the canopy; bud viability; evidence of wound closure; and the presence or evidence of stress, disease, nutrient deficiency, and/or insect infestation; trunk and branch configuration; canopy balance; the presence of included bark and other structural defects such as decay; and the potential for structural failure.

RESULTS

Environmental Setting

The project site is a vacant, wooded parcel within the City of Folsom. The site is generally bordered by residential parcels and small commercial buildings, as well as the paved Oak Parkway cycling trail. Folsom State Prison is located north of the project site, on the opposite side of Natoma Street.

Site Conditions

The entire project site is considered to be blue oak woodland, surrounded by urban development. Historic aerial imagery shows that the project site has changed little since 1952 and has consisted of oak woodland with a drainage running through the site. The site is moderately disturbed. There is evidence of recreational use by bicycles and the site has a constructed dirt track with several constructed dirt ramps and jumps for bicycles, presumably constructed by kids from the adjacent residential neighborhood. It also has debris piles and other evidence of use by transients.

Habitat Types/Vegetation Communities

Habitat types/vegetation communities in the project site include blue oak woodland and ephemeral and intermittent drainages. Representative site photographs are included as Attachment C.

Blue Oak Woodland

Blue oak woodland is the predominant habitat type in the project site and occupies 4.82-acres within the site. Vegetation in the blue oak woodland habitat consists primarily of blue oak (*Quercus douglasii*) and interior live oak (*Quercus wislizeni*), with some non-native species including mulberry (*Morus alba*), Chinese tallow (*Triadica sebifera*), Chinese hackberry (*Celtis sinensis*), and ornamental cherry (*Prunus* sp.). The understory is dominated by non-native grasses and forbs, including cultivated oats (*Avena* sp.), Italian rye grass (*Festuca perennis*), and yellow star-thistle (*Centaurea solstitialis*). Disturbed areas, such as bike trails and jumps occur beneath the canopy of the oak woodland, and there is a significant amount of trash and debris in these areas. A small segment of the bike trail occurs in this habitat.

Topography

The terrain in the project site and vicinity is locally flat. The elevation on the project site ranges from 350- to 370-feet above mean sea level and has low to moderate sloping from east to west.

Soils

The project site includes two soil mapping units (NRCS 2020): Argonaut-Auburn-Urban land complex, 3 to 8 percent slopes and Argonaut-Auburn complex, 3 to 8 percent slopes. Soils on the National Hydric Soils List for Sacramento County (NRCS 2015) are not present in the project site.

Both soils occur on hills and are derived from residuum weathered from metamorphic rock. A typical profile of the Argonaut-Auburn-Urban land complex and Argonaut-Auburn complex, 3 to 8 percent slopes include loam from 0- to 14-inches, clay from 14- to 29-inches and bedrock from 29- to 33-inches; the depth to water table is more than 80-inches.

Special-Status Plant Species

No special-status plant species were determined to have the potential to occur on the project site or be impacted by the proposed project. Of the 17 regionally occurring special-status plant species that were identified during the database queries and desktop review, the majority occur in wetland habitats such as vernal pools or seeps, which are absent from the site. Several others are limited to grassland or cismontane woodland habitats. Although the site contains blue oak woodland, the study area is located in an urban area dominated by non-native species that does not provide suitable habitat for special-status plant species. Therefore, no impacts to special-status plants are anticipated as a result of the proposed project.

Protected Trees

A total of 111 trees are present on the site, including 94 blue oaks, seven Fremont's cottonwoods (*Populus fremontii*), four interior live oaks, two Gooding's black willow (*Salix gooddingii*), one mulberry, one Chinese hackberry, one Chinese tallow, and one ornamental cherry (Figure 3). The City of Folsom regulates trees under Section 12.16 of the Folsom Municipal Code (Tree Preservation Ordinance). A permit is required to remove native oaks (defined as valley oak, blue oak, interior live oak, and coast live oak) measuring 6-inches in diameter at standard height (i.e., 54-inches above natural grade, DSH), or a multi-stemmed native oak measuring a total of 20-inches at DSH. For a tree with a common root system that branches at the ground, DSH is defined as the sum of the diameter of the largest trunk and one-half the cumulative diameter of the remaining trunks measured at 4.5-feet above natural grade. If protected trees will be removed by the proposed project, mitigation will be required per Section 12.16.150.

A total of 71 trees on the project site are considered protected by Folsom City Code; 69 blue oaks are protected, and two interior live oaks are protected. None of the Fremont's cottonwood, Chinese hackberry, Chinese tallow, mulberry, ornamental cherry or Gooding's black willow are protected. See Attachment B for additional data on the trees found on the project site.

RECOMMENDED MITIGATION MEASURES

Protected Trees

Of the 111 trees on the project site, 71 trees are considered protected by Folsom City Code; 69 blue oaks, and two interior live oaks. If protected trees will be removed by the proposed project mitigation will be required per Section 12.16.150.

Protected trees rated 3, 4 or 5 shall be replaced at a ratio of one-inch equivalent for every one-inch of DSH removed as shown in Table 1. Protected trees rated 2 shall be replaced at a ratio of one-half-inch equivalent for every one-inch removed. Protected trees rated 0 or 1 require no replacement or any other mitigation. Mitigation for trees can be done through on-site replacement planting, payment of in-lieu fees, or a combination thereof.

Table 1: Tree Replacement Equivalency Table

Replacement Tree Size	DSH Equivalency
A sapling tree; or	0.5-inch DSH
Tree in container less than 15 gallons	0.5-inch DSH
15-gallon container tree	1-inch DSH
24-inch box tree	2-inch DSH
36-inch box tree	3-inch DSH

Of the 71 trees protected by Folsom City Code, only 57 trees require mitigation based on having a health rating of 5, 4, 3, or 2. Based on the DSH equivalency ratio, mitigation for a total of 935.6-inches is required if all protected trees subject to mitigation requirements are impacted.

SUMMARY/CONCLUSION

Protected Trees

Of the 111 trees on the project site, 71 trees are considered protected by Folsom City Code. If protected trees will be removed by the proposed project, mitigation will be required per Section 12.16.150. Of the 71 trees that are protected by Folsom City Code, only 57 trees require mitigation based on having a health rating of 5, 4, 3, or 2. Based on the DSH equivalency ratio, mitigation for a total of 935.6-inches is required if all protected trees subject to mitigation are impacted.

I appreciate the opportunity to assist you on this project. Feel free to contact me with any questions at 916-365-8712.



Stephen Stringer, M.S.
Principal Biologist/ Biology Group Manager

Attachments:

- A – Figures
- B – Tree Inventory
- C – Site Photographs

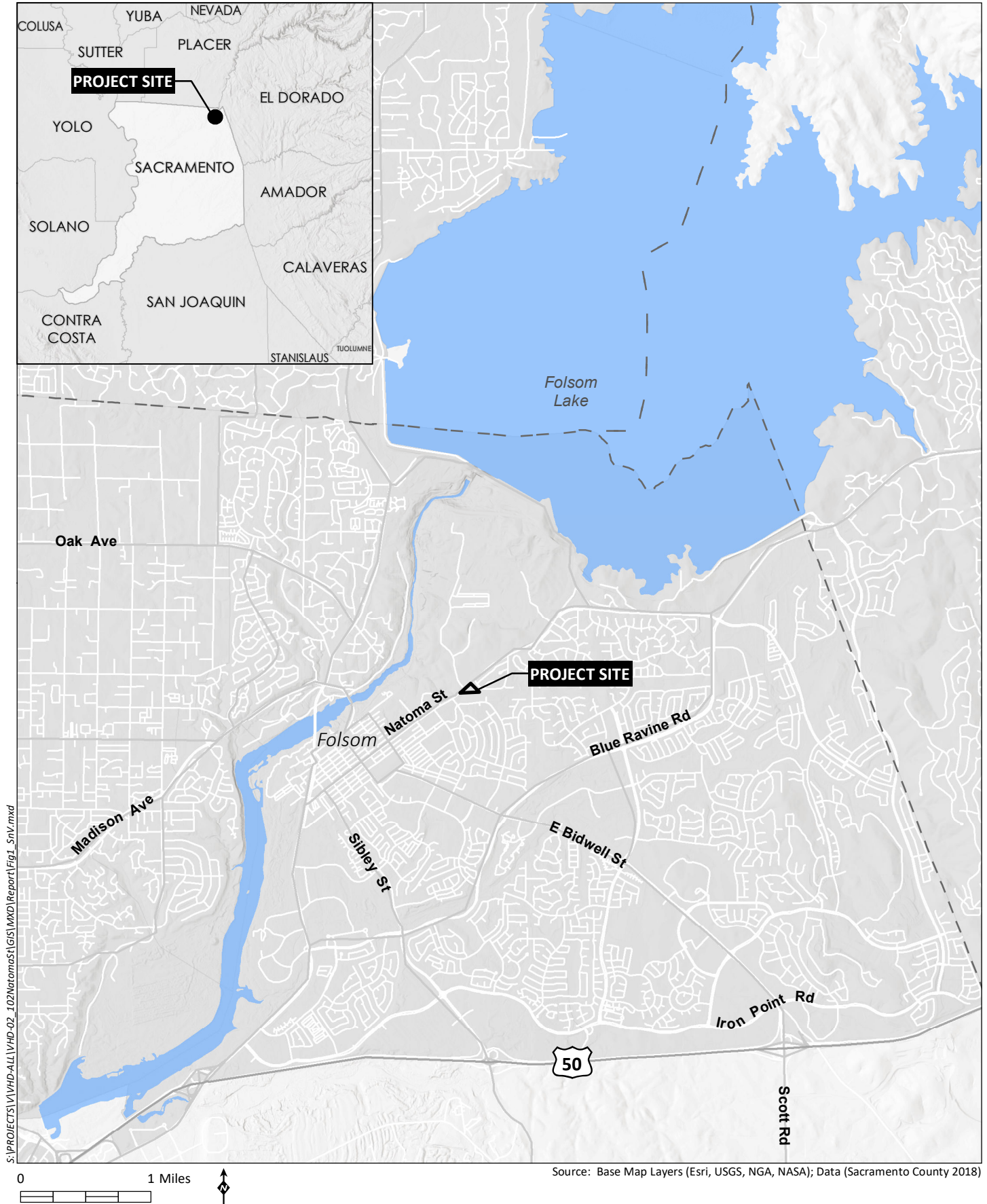
REFERENCES

California Native Plant Society (CNPS). 2020. Inventory of Rare and Endangered Plants (online edition, v8-03 0.39). Website <http://www.rareplants.cnps.org> [Accessed 1 October 2020].

NETR Online (NETR). 2020. Historic Aerials. <https://www.historicaerials.com/viewer>.

Attachment A

Figures





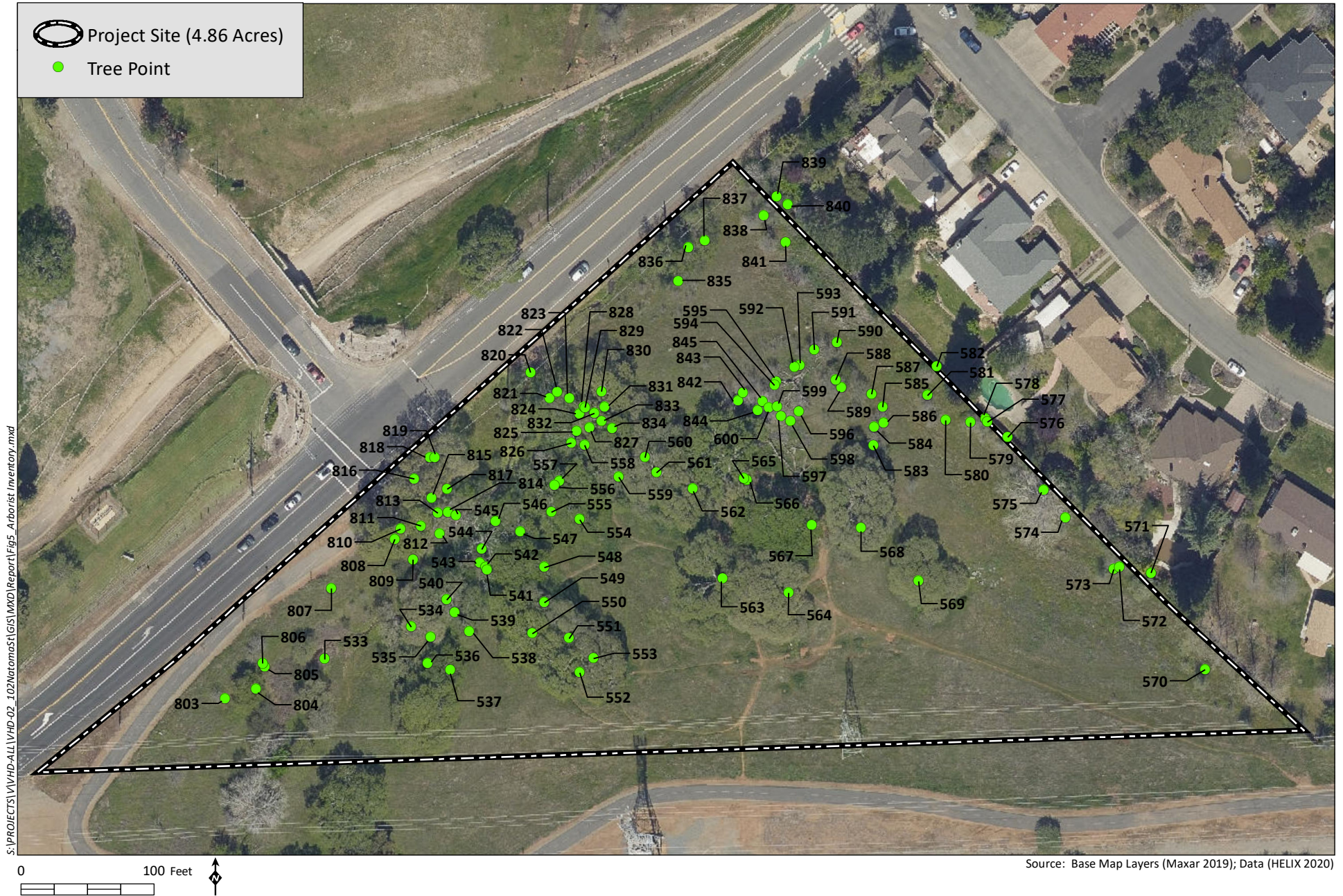
Project Site (4.86 Acres)



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Source: Base Map Layers (Maxar 2019)



Attachment B

Tree
Inventory

Attachment B – Tree Inventory

Tree Number	Species	DSH (in)	Dripline (ft)	Height (ft)	Health	Structure	Notes	Protected?	Mitigation?	Replace. Inches*
533	Blue Oak <i>Quercus douglasii</i>	17.8	17	58	5	4		Yes	Yes - Full	17.8
534	Blue Oak <i>Quercus douglasii</i>	14	25	65	5	3	lean	Yes	Yes – Full	14
535	Blue Oak <i>Quercus douglasii</i>	20.4	35	75	5	4		Yes	Yes - Full	20.4
536	Blue Oak <i>Quercus douglasii</i>	15	18	55	2	3	crown dieback, lean	Yes	Yes - Half	7.5
537	Blue Oak <i>Quercus douglasii</i>	16.5	30	72	3	4	crown dieback	Yes	Yes - Full	16.5
538	Blue Oak <i>Quercus douglasii</i>	18.4	20	70	2	4	crown dieback	Yes	Yes - Half	9.2
539	Blue Oak <i>Quercus douglasii</i>	16.9	25	70	2	5	Tree is in decline	Yes	Yes - Half	8.5
540	Blue Oak <i>Quercus douglasii</i>	16.7	25	65	2	3	crown dieback, lean	Yes	Yes- Half	8.3
541	Blue Oak <i>Quercus douglasii</i>	11.5	20	15	1	1	crown dieback, lean	Yes	No	--
542	Blue Oak <i>Quercus douglasii</i>	12.6	20	15	1	1	crown dieback, lean, nearly dead	Yes	No	--
543	Blue Oak <i>Quercus douglasii</i>	21.5	25	45	2	3	crown dieback, included bark, lean	Yes	Yes- Half	10.7
544	Blue Oak <i>Quercus douglasii</i>	17.7	0	0	0	0	dead	No	No	--
545	Mulberry <i>Morus alba</i>	5.3, 3, 3, 3, 2	15	15	4	3	codominant leaders	No	No	--
546	Blue Oak <i>Quercus douglasii</i>	13.2	20	55	1	4	crown dieback, nearly dead	Yes	No	--
547	Blue Oak <i>Quercus douglasii</i>	16.1	30	58	2	4	crown dieback	Yes	Yes - Half	8
548	Blue Oak <i>Quercus douglasii</i>	19.8	28	70	3	4	crown dieback	Yes	No	--
549	Blue Oak <i>Quercus douglasii</i>	17.8	17	55	1	4	crown dieback	Yes	No	--
550	Blue Oak	22	25	68	1	4	crown dieback	Yes	No	--

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	<i>Quercus douglasii</i>									
551	Blue Oak <i>Quercus douglasii</i>	14.5	20	55	2	4	crown dieback	Yes	Yes - Half	7.2
552	Blue Oak <i>Quercus douglasii</i>	25.2	16	65	2	4	crown dieback	Yes	Yes - Half	12.6
553	Blue Oak <i>Quercus douglasii</i>	26.5	25	65	4	4		Yes	Yes - Full	26.5
554	Blue Oak <i>Quercus douglasii</i>	26.6	25	65	1	3	crown dieback, nearly dead	Yes	No	--
555	Blue Oak <i>Quercus douglasii</i>	19.2	30	65	1	4	crown dieback	Yes	No	--
556	Blue Oak <i>Quercus douglasii</i>	17	35	60	2	3	codominant leaders, crown dieback	Yes	Yes – Half	8.5
557	Blue Oak <i>Quercus douglasii</i>	14.4	0	0	0	0	dead	No	No	--
558	Blue Oak <i>Quercus douglasii</i>	16.3	0	0	0	0	dead	No	No	--
559	Blue Oak <i>Quercus douglasii</i>	20.5	30	68	3	3	crown dieback, lean	Yes	Yes – Full	20.5
560	Blue Oak <i>Quercus douglasii</i>	28.7	35	75	3	4	codominant leaders, crown dieback	Yes	Yes – Full	28.7
561	Blue Oak <i>Quercus douglasii</i>	15.8, 19.8	25	68	4	4	codominant leaders	Yes	Yes – Full	35.6
562	Blue Oak <i>Quercus douglasii</i>	23.7	40	70	4	4		Yes	Yes – Full	23.7
563	Blue Oak <i>Quercus douglasii</i>	33.5	20	70	2	3	trunk wound, trunk rot	Yes	Yes – Half	16.75
564	Blue Oak <i>Quercus douglasii</i>	32.1	25	75	5	5		Yes	Yes - Full	32.1
565	Blue Oak <i>Quercus douglasii</i>	30	40	80	2	4	crown dieback	Yes	Yes - Half	15
566	Blue Oak <i>Quercus douglasii</i>	27.3	28	70	2	4	codominant leaders	Yes	Yes – Half	13.65
567	Blue Oak <i>Quercus douglasii</i>	26.6	35	75	4	4	lean	Yes	Yes - Full	26.6
568	Blue Oak <i>Quercus douglasii</i>	35.5	40	75	5	4		Yes	Yes – Full	35.5

Attachment B – Tree Inventory

569	Blue Oak <i>Quercus douglasii</i>	41	50	80	4	4	codominant leaders, included bark, trunk rot	Yes	Yes - Full	41
570	Blue Oak <i>Quercus douglasii</i>	5.6, 5.7	7	14	4	4	codominant leaders	No	No	--
571	Ornamental cherry <i>Prunus sp.</i>	6, 6, 5.8, 4, 3.5, 2	11	15	4	3	codominant leaders	No	No	--
572	Chinese hackberry <i>Celtis sinensis</i>	7.2	16	22	5	4		No	No	--
573	Blue Oak <i>Quercus douglasii</i>	7.2	7	11	5	5		Yes	Yes – Full	7.2
574	Blue Oak <i>Quercus douglasii</i>	6.1	8	12	5	5		Yes	Yes - Full	6.1
575	Fremont's cottonwood <i>Populus fremontii</i>	20, 35	35	65	4	4	codominant leaders, included bark	No	No	--
576	Blue Oak <i>Quercus douglasii</i>	5.6	5	11	4	4		No	No	--
577	Blue Oak <i>Quercus douglasii</i>	6.7	8	17	4	4		Yes	Yes – Full	6.7
578	Blue Oak <i>Quercus douglasii</i>	7.3	10	15	4	3		Yes	Yes - Full	7.3
579	Blue Oak <i>Quercus douglasii</i>	4.5	7	11	5	5		No	No	--
580	Blue Oak <i>Quercus douglasii</i>	6	6	10	5	5		Yes	Yes - Full	6
581	Blue Oak <i>Quercus douglasii</i>	4, 4.8	11	12	5	4	codominant leaders, included bark	No	No	--
582	Chinese Tallow <i>Triadica sebifera</i>	4.8, 4.7, 3.7	10	15	4	3	codominant leaders	No	No	--
583	Blue Oak <i>Quercus douglasii</i>	6.5	6	11	4	4		Yes	Yes – Full	6.5
584	Blue Oak <i>Quercus douglasii</i>	6.2	7	16	4	4		Yes	Yes - Full	6.2
585	Blue Oak <i>Quercus douglasii</i>	4.5	4	11	5	5		No	No	--
586	Blue Oak <i>Quercus douglasii</i>	4.2, 2.8, 3.5	6	12	4	3	codominant leaders, included	No	No	--

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587	Blue Oak <i>Quercus douglasii</i>	6.5, 6	10	18	4	3	included bark, codominant leaders	Yes	Yes – Full	8.8
588	Blue Oak <i>Quercus douglasii</i>	8.6, 6.7	11	19	5	4	codominant leaders	Yes	Yes – Full	10.9
589	Interior Live Oak <i>Quercus wislizeni</i>	5.5, 5, 2.3	9	9	4	3	codominant leaders	No	No	--
590	Blue Oak <i>Quercus douglasii</i>	6	7	15	5	5		Yes	Yes – Full	6
591	Blue Oak <i>Quercus douglasii</i>	6.5	5	12	4	4		Yes	Yes - Full	6.5
592	Blue Oak <i>Quercus douglasii</i>	4.5	6	12	4	4	codominant leaders	No	No	--
593	Blue Oak <i>Quercus douglasii</i>	4	4	12	5	5		No	No	--
594	Blue Oak <i>Quercus douglasii</i>	6.2	6	13	5	4		Yes	Yes - Full	6.2
595	Blue Oak <i>Quercus douglasii</i>	5	6	12	4	4		No	No	--
596	Fremont's cottonwood <i>Populus fremontii</i>	6.9, 6.7, 5.7	12	15	4	3	codominant leaders	No	No	--
597	Fremont's cottonwood <i>Populus fremontii</i>	4.3	5	18	5	4		No	No	--
598	Fremont's cottonwood <i>Populus fremontii</i>	5.7, 6.2, 2.5	11	19	5	3	codominant leaders	No	No	--
599	Blue Oak <i>Quercus douglasii</i>	5.9	4	16	4	4		No	No	--
600	Fremont's cottonwood <i>Populus fremontii</i>	8.6	11	20	5	5		No	No	--
803	Blue Oak <i>Quercus douglasii</i>	6.4	6	18	5	4		Yes	Yes – Full	6.4
804	Blue Oak <i>Quercus douglasii</i>	10.9	11	22	5	4		Yes	Yes – Full	10.9
805	Blue Oak <i>Quercus douglasii</i>	7.2	5	16	5	5		Yes	Yes - Full	7.2
806	Blue Oak <i>Quercus douglasii</i>	4.2, 5.5	7	11	4	3	codominant leaders	No	No	--
807	Blue Oak	6.7	5	11	4	3	codominant leaders	Yes	Yes - Full	6.7

Attachment B – Tree Inventory

	<i>Quercus douglasii</i>									
808	Blue Oak <i>Quercus douglasii</i>	18.6	19	65	3	4	lean	Yes	Yes - Full	18.6
809	Interior Live Oak <i>Quercus wislizeni</i>	15.7	6	13	2	1	trunk wound, trunk rot, lean	Yes	Yes - Half	7.8
810	Blue Oak <i>Quercus douglasii</i>	32.5	25	65	5	4		Yes	Yes - Full	32.5
811	Blue Oak <i>Quercus douglasii</i>	14.4	11	35	5	4		Yes	Yes - Full	14.4
812	Blue Oak <i>Quercus douglasii</i>	15.3	9	40	3	4	exposed roots	Yes	Yes - Full	15.3
813	Blue Oak <i>Quercus douglasii</i>	12	12	32	4	4	included bark	Yes	Yes - Full	12
814	Blue Oak <i>Quercus douglasii</i>	11.8	16	35	4	2	lean	Yes	Yes – Full	11.8
815	Blue Oak <i>Quercus douglasii</i>	13	16	36	4	3	lean	Yes	Yes – Full	13
816	Blue Oak <i>Quercus douglasii</i>	22	25	60	5	4		Yes	Yes - Full	22
817	Blue Oak <i>Quercus douglasii</i>	14.4	18	25	1	1	crown dieback, lean	Yes	No	--
818	Blue Oak <i>Quercus douglasii</i>	28	35	70	4	3	codominant leaders	Yes	Yes – Full	28
819	Blue Oak <i>Quercus douglasii</i>	20	33	65	4	4	codominant leaders	Yes	Yes - Full	20
820	Blue Oak <i>Quercus douglasii</i>	5.2	5	8	5	4		No	No	--
821	Blue Oak <i>Quercus douglasii</i>	17.8	25	60	2	4	crown dieback	Yes	Yes - Half	8.7
822	Blue Oak <i>Quercus douglasii</i>	12.2, 9.2	18	20	1	1	crown dieback, lean, codominant leaders	Yes	No	--
823	Blue Oak <i>Quercus douglasii</i>	17	30	68	3	2	codominant leaders	Yes	Yes - Full	17
824	Blue Oak <i>Quercus douglasii</i>	9.5	10	35	3	4	crown dieback	Yes	Yes - Full	9.5
825	Blue Oak <i>Quercus douglasii</i>	9.6, 8.8	0	0	1	1	dead	No	No	--

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826	Blue Oak <i>Quercus douglasii</i>	7.6, 6.8	0	0	1	1	dead	No	No	--
827	Blue Oak <i>Quercus douglasii</i>	12.5	15	35	1	1	crown dieback, lean	Yes	No	--
828	Blue Oak <i>Quercus douglasii</i>	18.5	17	45	1	1	crown dieback	Yes	No	--
829	Blue Oak <i>Quercus douglasii</i>	12.8	25	10	4	1	lean	Yes	Yes - Full	12.8
830	Blue Oak <i>Quercus douglasii</i>	16.6	20	35	4	2	lean	Yes	Yes - Full	16.6
831	Blue Oak <i>Quercus douglasii</i>	25	35	70	4	4	trunk wound, lean	Yes	Yes - Full	25
832	Blue Oak <i>Quercus douglasii</i>	5.8	5	17	4	3		No	No	--
833	Blue Oak <i>Quercus douglasii</i>	9	7	20	4	4	codominant leaders	Yes	Yes - Full	9
834	Blue Oak <i>Quercus douglasii</i>	14.1	40	68	3	3	crown dieback, lean	Yes	Yes - Full	14.1
835	Interior Live Oak <i>Quercus wislizeni</i>	6.4, 4.6	7	16	5	4	codominant leaders	Yes	Yes – Full	7.9
836	Interior Live Oak <i>Quercus wislizeni</i>	7.7, 5.5	11	19	5	4	codominant leaders	Yes	Yes – Full	9.4
837	Blue Oak <i>Quercus douglasii</i>	5.7, 2.7	6	12	5	3	codominant leaders, included bark	No	No	--
838	Blue Oak <i>Quercus douglasii</i>	12.5	7	18	4	4	included bark	Yes	Yes - Full	12.5
839	Gooding's black willow <i>Salix gooddingii</i>	9.2, 10.4, 7.2	10	18	2	3	included bark, crown dieback	No	No	--
840	Gooding's black willow <i>Salix gooddingii</i>	8.9, 9	11	16	2	2	included bark, crown dieback	No	No	--
841	Blue Oak <i>Quercus douglasii</i>	9.5, 5.6	13	21	4	4	codominant leaders	Yes	Yes – Full	11
842	Fremont's cottonwood <i>Populus fremontii</i>	5.2, 5	7	16	4	4	codominant leaders	No	No	--
843	Blue Oak <i>Quercus douglasii</i>	6.3	6	18	5	5		Yes	Yes – Full	6.3
844	Fremont's cottonwood	6.8	5	17	5	5		No	No	--

Attachment B – Tree Inventory

	<i>Populus fremontii</i>									
845	Blue Oak <i>Quercus douglasii</i>	5.9, 2.7	8	13	5	4	codominant leaders	No	No	--
Totals:								77 trees	65 trees	935.6 inches

* = Indicates estimated mitigation inches that would be required if tree is removed to be determined by the City of Folsom. No impact assessment was conducted.

Attachment C

Site
Photographs



Photo 1: View of intermittent drainage feature running through blue oak woodland. Photo taken facing northeast.



Photo 2: View of intermittent drainage feature running through blue oak woodland. Photo taken facing west.



Photo 3: View of cycling trail and traffic on Natoma Street, along the northern boundary of the project site. Photo taken facing west.



Photo 4: View along the boundary of the site at Natoma Street. Photo taken facing northeast.



Photo 5: View of electrical towers along the southern boundary of the project site. Photo taken facing southwest.



Photo 6: View of blue oak woodland habitat on the project site. Photo taken facing west.



Photo 7: View of informal bike trails and jumps constructed beneath the canopy of oak trees. Photo taken facing south.



Photo 8: View of the intermittent drainage running through the project site. Photo taken facing northeast.



Photo 9: View of the ephemeral drainage running through the project site. Photo taken facing southeast.



Photo 10: View of the “Y” intersection of the intermittent and ephemeral drainages on the project site. Photo taken facing west.