

WILDLIFE HABITAT ASSESSMENT

for the


Austin Parker  
308<sup>th</sup> Ave. S.E.  
Fall City, Washington 98024

Tax Parcel Number: 092407-9063  
Section 9, Township 24 N, Range 7 E

Prepared for:  
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November 29, 2021

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Signature

11/29/21  
Date

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King County Imap - 2019 Aerial & Environmental Layers

List of Species Protected in the King County Comprehensive Plan and CAO

## **Project Description**

The applicant proposes to construct a single-family residence, driveway, and septic system. The Critical Areas Designation (CAD) will be submitted to King County DPER along with this wildlife assessment. It is anticipated that a Critical Areas Alteration Exception (CAAE) will be required for this property because the site is entirely critical area and critical area buffer.

## **Site Address, Identification, and Directions**

The tax parcel number is 092407-9063. A site address has not been assigned as of the date of this report. The subject study area is located in Section 9, Township 24 North, Range 7 East, of the Willamette Meridian.

Directions from King County DPER are as follows:

Head southeast on S.E. Douglas St.;

Turn left towards S.E. Center St.;

Turn left onto S.E. Center St.;

Turn right onto Snoqualmie Parkway;

Turn left onto Railroad Ave.;

At the traffic circle, take the 3rd exit onto WA-202 W./Railroad Ave.;

Exit the traffic circle onto WA-202 W./Railroad Ave.;

At the traffic circle, take the 2nd exit onto WA-202/Redmond-Fall City Rd. S.E.;

Turn left onto 308th Ave. S.E.;

Proceed to the property immediately south of 3816 308th Ave. S.E.

## **General Site Description**

The property is undeveloped forestland with a drainage pattern and stream crossing the property. The slopes are 0-20%. There is an existing undeveloped driveway entrance near the northwest property corner. The parcel is in a community of rural residential and forested properties.

## **King County Wildlife Habitat Development Standards**

The King County Comprehensive Code and CAO provide specific protection for a number of animal species. King County provides protection for active breeding sites for federal and state listed endangered, threatened sensitive and candidate species. Adopted WDFW species management recommendations are to be followed (Rodrick & Milner, 1991).

## **Federally and/or State Listed Species**

### ***Gray Wolf (Canus lupus)***

The Gray Wolf (*Canus lupus*), an endangered species, is identified on the attached WDFW PHS online report.

WDFW Management Recommendations are as follows: None

### ***Coho (Oncorhynchus kisutch)***

The above listed species are present in Patterson Creek. The onsite tributary is accessible to fish from Patterson Creek.

WDFW Management recommendations: Same as for Riparian habitat.

## **Federally and/or State Listed Priority Habitats**

### ***Riparian Habitat Area***

A tributary of Patterson Creek flows along the south property beginning at a culvert under 308th Ave. S.E. The stream crosses the south quarter of the property. The onsite stream has a narrow incised channel with flow depths of a few inches. Flows are seasonal. The stream is a Type F with a 165-foot buffer. WDFW defines ‘Riparian Areas’ as: “The area adjacent to aquatic systems with flowing water that contains elements of both aquatic and terrestrial ecosystems which mutually influence each other” (Knutson & Nael, 1997). “Riparian habitat encompasses the area beginning at the ordinary highwater mark and extends to that portion of the terrestrial landscape that is influenced by, or that directly influences, the aquatic ecosystem. Riparian habitat includes the entire extent of the floodplain and riparian areas of wetlands that are directly connected to stream courses (Knutson & Nael, 1997).” The criteria which qualify this habitat as being of high quality and worthy of special protection are outlined by the WDFW as: “High fish and wildlife density, high fish and wildlife species diversity, important fish and wildlife breeding habitat, important wildlife seasonal ranges, important fish and wildlife movement corridors, high vulnerability to habitat alteration, unique or dependent species (Knutson & Nael, 1997).” Management recommendation are provided throughout this report from WDFW (Rodrick & Milner, 1991).

Management recommendations: Riparian areas are to be protected according to an approved critical area alterations exception from King County DPER. Requirements should include use of best management construction practices, and seasonal limitation on excavation, grading, backfill, and utility installation.

### ***Wetlands***

A critical area study for wetlands and streams was prepared by *J. S. Jones and Associates, Inc.* “Critical Area Study”, November 21, 2021. There is a forested wetland adjacent to a portion of the stream channel, see the critical area study. The wetland rates Category III wetland with a habitat score of 7 points. The King County wetland buffer requirement for a Category III wetland, with a habitat score of 7 points, is 110 feet. Encompass Engineering and Land Surveying has located critical area flagging and prepared a critical area map.

Management recommendations: Same as for Riparian Habitat Areas.

## **Priority Species with Primary Habitat Associations Identified on the PHS Online Report**

The WDFW online Priority Habitats and Species (PHS) report identifies Gray Wolf (*Canis lupus*) a federally and state listed endangered species and Coho (*Oncorhynchus kisutch*) a federal candidate species (see attached Priority Habitats and Species Report). There are a number of

other salmonid species in Patterson Creek, but of those only Coho are priority species. Management recommendations for the Gray Wolf and Coho are provided in the Federally and/or State Listed Species section of this report.

## **Species with Specific Protection Provided in the King County CAO Development Standards**

### ***Bald Eagle (Haliaeetus leucocephalus)***

No bald eagle stick nests were observed on or within 600 feet of the site.

WDFW Management Recommendations are as follows: Retain all trees over 21" DBH on site, and all trees over 40 feet in height.

King County Code, 21A.24.382 Wildlife habitat conservation areas - development standards

#### B. For a bald eagle:

1. The wildlife habitat conservation area is an area with a four-hundred-foot radius from an active nest;
2. Between March 15 and April 30, alterations are not allowed within eight hundred feet of the nest; and
2. Between January 1 and August 31, land clearing machinery, such as bulldozers, graders, or other heavy equipment, may not be operated within eight hundred feet of the nest;

### ***Great Blue Heron (Ardea herodias)***

No heron rookeries were observed or known to be present on or near the site.

WDFW Management Recommendations are as follows: None

King County Code, 21A.24.382 Wildlife habitat conservation areas - development standards

#### C. For a great blue heron:

1. The wildlife habitat conservation area is an area with an eight-hundred-twenty-foot radius from the rookery. The department may increase the radius up to an additional one-hundred sixty-four feet if the department determines that the population of the rookery is declining; and
2. Between January 1 and July 31, clearing or grading are not allowed within nine-hundred-twenty-four feet of the rookery;

### ***Marbled Murrelet (Brachyramphus marmoratus)***

The site is not suitable habitat for marbled murrelet. The site is more than three miles from Puget Sound. Old growth forest is absent.

WDFW Management Recommendations are as follows: None

King County Code, 21A.24.382 Wildlife habitat conservation areas - development standards

- D. For a marbled murrelet, the wildlife habitat conservation area is an area with a one-half-mile radius around an active nest;

### ***Northern Goshawk (Accipiter gentilis)***

No northern goshawk birds or nests were observed or known to be present on or near the site.

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WDFW Management Recommendations are as follows: None

King County Code, 21A.24.382 Wildlife habitat conservation areas - development standards

E. For a northern goshawk, the wildlife habitat conservation area is an area with a one-thousand-five-hundred-foot radius around an active nest located outside of the urban growth area;

***Osprey (Pandion haliaetus)***

No osprey nests were observed on or near the site.

WDFW Management Recommendations are as follows: None

King County Code, 21A.24.382 Wildlife habitat conservation areas - development standards

F. For an osprey:

1. The wildlife habitat conservation area is an area with a two-hundred-thirty-foot radius around an active nest; and

2. Between April 1 and September 30, alterations are not allowed within six-hundred-sixty feet of the nest;

***Peregrine Falcon (Falco peregrinus)***

No peregrine falcon nests were observed or known to be present on or near the site.

WDFW Management Recommendations are as follows: None.

King County Code, 21A.24.382 Wildlife habitat conservation areas - development standards

G. For a peregrine falcon:

1. The wildlife habitat conservation area is an area extending for a distance of one-thousand feet of an eyrie on a cliff face, the area immediately above the eyrie on the rim of the cliff, and the area immediately below the cliff;

2. Between March 1 and June 30, land-clearing activities that result in loud noises, such as from blasting, chainsaws or heavy machinery, are not allowed within one-half mile of the eyrie; and

3. New power lines may not be constructed within one-thousand feet of the eyrie;

***Northern Spotted Owl (Strix occidentalis)***

The Northern spotted owl is a resident of mature coniferous forests of the Puget Sound Lowlands.

WDFW Management recommendations: Retain mature forests. Retain snags over 20” dbh.

King County Code, 21A.24.382 Wildlife habitat conservation areas - development standards

H. For a spotted owl, the wildlife habitat conservation area is an area with a three-thousand-seven-hundred-foot radius from an active nest;

***Western Townsend's big-eared bat (Plecotus/Corynorhinus townsendii)***

Bat observations and identification was not performed. Bats are certainly present, however the presence or absence of the Western Townsend's big-eared bat was not confirmed.

WDFW Management Recommendations are as follows: Retain all snags and trees with greater than 21” DBH. Refrain from all pesticide and herbicide use on and near the site. These recommendations are adapted from WDFW management recommendations for Townsend’s big-eared bats, August 2005.

King County Code, 21A.24.382 Wildlife habitat conservation areas - development standards

I. For a Townsend's big-eared bat:

1. Between June 1 and October 1, the wildlife habitat conservation area is an area with a four-hundred-fifty-foot radius from the entrance to a cave or mine, located outside of the urban area, with an active nursery colony
2. Between November 1 and March 31, the wildlife habitat conservation area is an area with a four-hundred-fifty-foot radius around the entrance to a cave or mine located outside the urban growth area serving as a winter hibernacula;
3. Between March 1 and November 30, a building, bridge, tunnel, or other structure used solely for day or night roosting may not be altered or destroyed;
4. Between May 1 and September 15, the entrance into a cave or mine that is protected because of bat presence is protected from human entry; and
5. A gate across the entrance to a cave or mine that is protected because of bat presence must be designed to allow bats to enter and exit the cave or mine;

### ***Vaux's Swift (Chaetura vauxi)***

No Vaux’s swifts were observed or known to be present on or near the site.

Management Recommendations are as follows: Retain all large trees and snags over 21” DBH. Refrain from use of all pesticides on the property as Vaux’s swifts consume prey items which are affected by pesticides. WDFW recommendations are not available for this species. Management recommendations and best available science compiled by King County and The Nature Conservancy (Paige, 2000).

King County Code, 21A.24.382 Wildlife habitat conservation areas - development standards

J. For a Vaux's swift:

1. The wildlife habitat conservation area is an area with a three-hundred-foot radius around an active nest located outside of the urban growth areas;
2. Between April 1 and October 31, clearing, grading, or outdoor construction is not allowed within four hundred feet of an active or potential nest tree. The applicant may use a species survey to demonstrate that the potential nest tree does not contain an active nest;

K. The department shall require protection of an active breeding site of any federal or state listed endangered, threatened, sensitive and candidate species or King County species of local importance not listed in subsections B. through J. of this section. If the Washington state Department of Fish and Wildlife has adopted management recommendations for a species covered by this subsection, the department shall follow those management recommendations. If management recommendations have not been adopted, the department shall base protection decisions on best available science. (Ord. 17485 § 23, 2012: Ord. 15051 § 198, 2004).

The “List of Species Protected in the King County Comprehensive Plan and CAO” is attached. The list is missing some species that are identified in the code with specific protection requirements. However, these additional species and the code requirements are provided in this document. The majority of species on the attached list are not present, because there is no suitable habitat, or the site is out of their range. Those species that may use the site and are

protected in the King County Comprehensive Plan include the Western Toad, Pileated Woodpecker, Ruffed Grouse, Mink, Douglas Squirrel, Elk, and Townsend Chipmunk. The stream corridor and protected critical area and buffer may provide habitat for these species. Only the Pileated woodpecker, Mink and Elk have management recommendations provided by WDFW. For the Pileated woodpecker, the WDFW management recommendation is protection of significant snags. Mink and Elk are managed as game species.

## **Impacts on Habitat and Water Quality**

Development of the site will result in a loss of upland habitat equal to the development area. The impact on habitat is the direct loss of native forest and the forest understory. Water quality impacts will be minimized and avoided to the greatest extent possible by providing seasonal limitations on grading and use of Best Management Construction Practices. The remaining undeveloped portion of the property will be retained as native forest and protected from future development.

## **Project Impacts and Mitigation**

Impacts and mitigation will be identified in an Impact Analysis report. Buffer impacts will not exceed 10% of the site or 5,000 square feet, whichever is larger.

## **Mitigation**

Mitigation will be off-site using the Snohomish County Mitigation Bank. The remaining buffer will be fenced and signed. A notice on title for the critical area buffer will be recorded at the King County Records Office.

## **Limitations**

Environmental studies are not final until approved by regulatory agencies and/or local jurisdictions. *J. S. Jones and Associates, Inc.* does not guarantee acceptance or approval by regulatory agencies, or that any intended use will be achieved.



## References

Knutson, K. L. and V. L. Naef. 1997. Riparian Habitat. Washington Department of Fish and Wildlife, Olympia. 181 pp.

Paige, C. 2000. Species management abstract, Vaux's swift (*Chaetura vauxi*). The Nature Conservancy. Arlington, VA.

Rodrick, E. and R. Milner (eds.). 1991. Management Recommendations for Washington's Priority Habitats and Species. Washington State Department of Fish and Wildlife. Olympia, Washington.

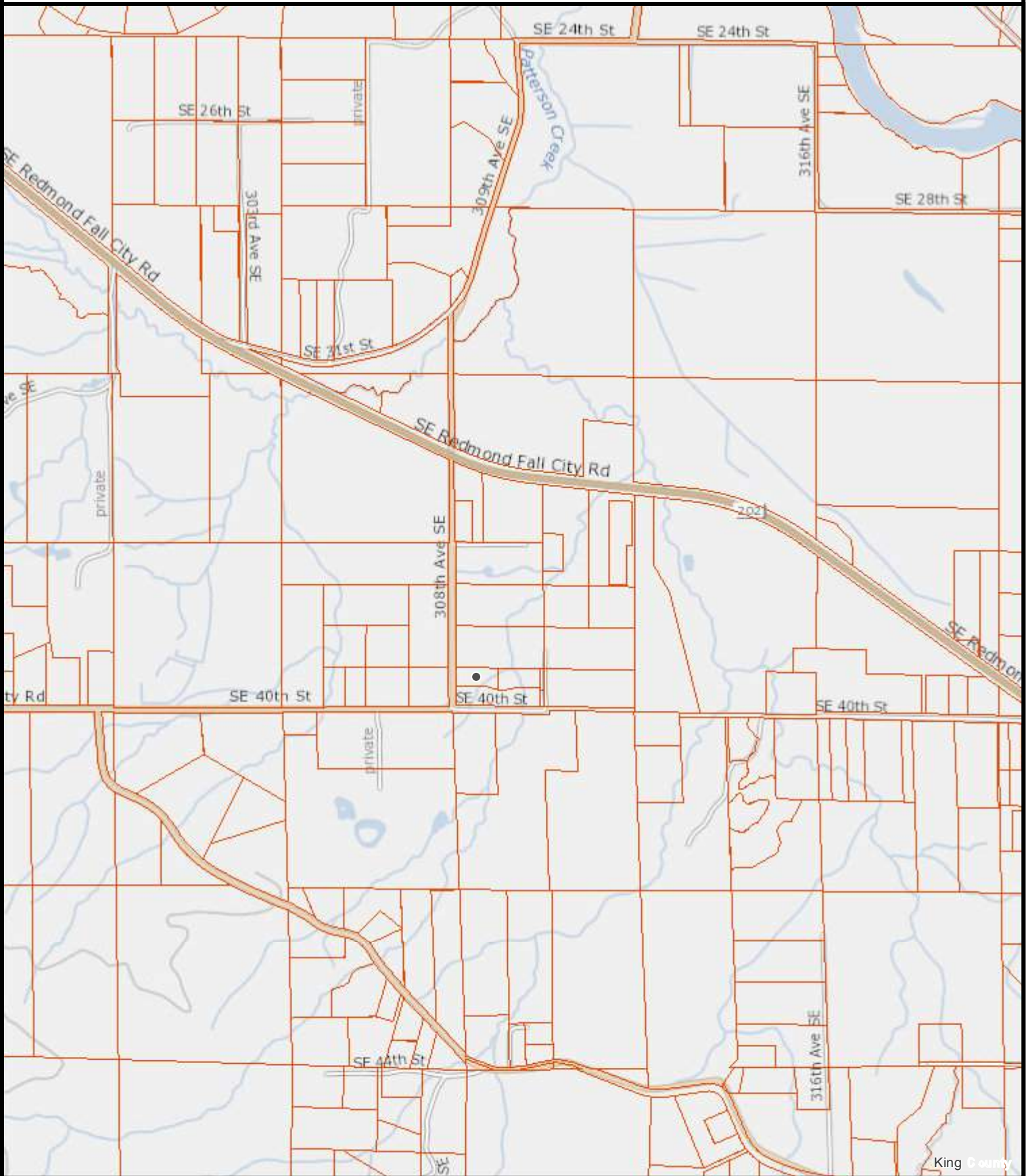
## Online References

"List of Species Protected in the King County Comprehensive Plan and CAO"  
<https://kingcounty.gov/services/environment/animals-and-plants/biodiversity/regulations.aspx>

WDFW, Priority Habitats and Species Report.  
<http://fortress.wa.gov/dfw/gispublic/prodphsontheweb/viewer.aspx>

## **Attachments**

# Vicinity Map



King County

The information included on this map has been compiled by King County staff from a variety of sources and is subject to change without notice. King County makes no representations or warranties, express or implied, as to accuracy, completeness, timeliness, or rights to the use of such information. This document is not intended for use as a survey product. King County shall not be liable for any general, special, indirect, incidental, or consequential damages including, but not limited to, lost revenues or lost profits resulting from the use or misuse of the information contained on this map. Any sale of this map or information on this map is prohibited except by written permission of King County.



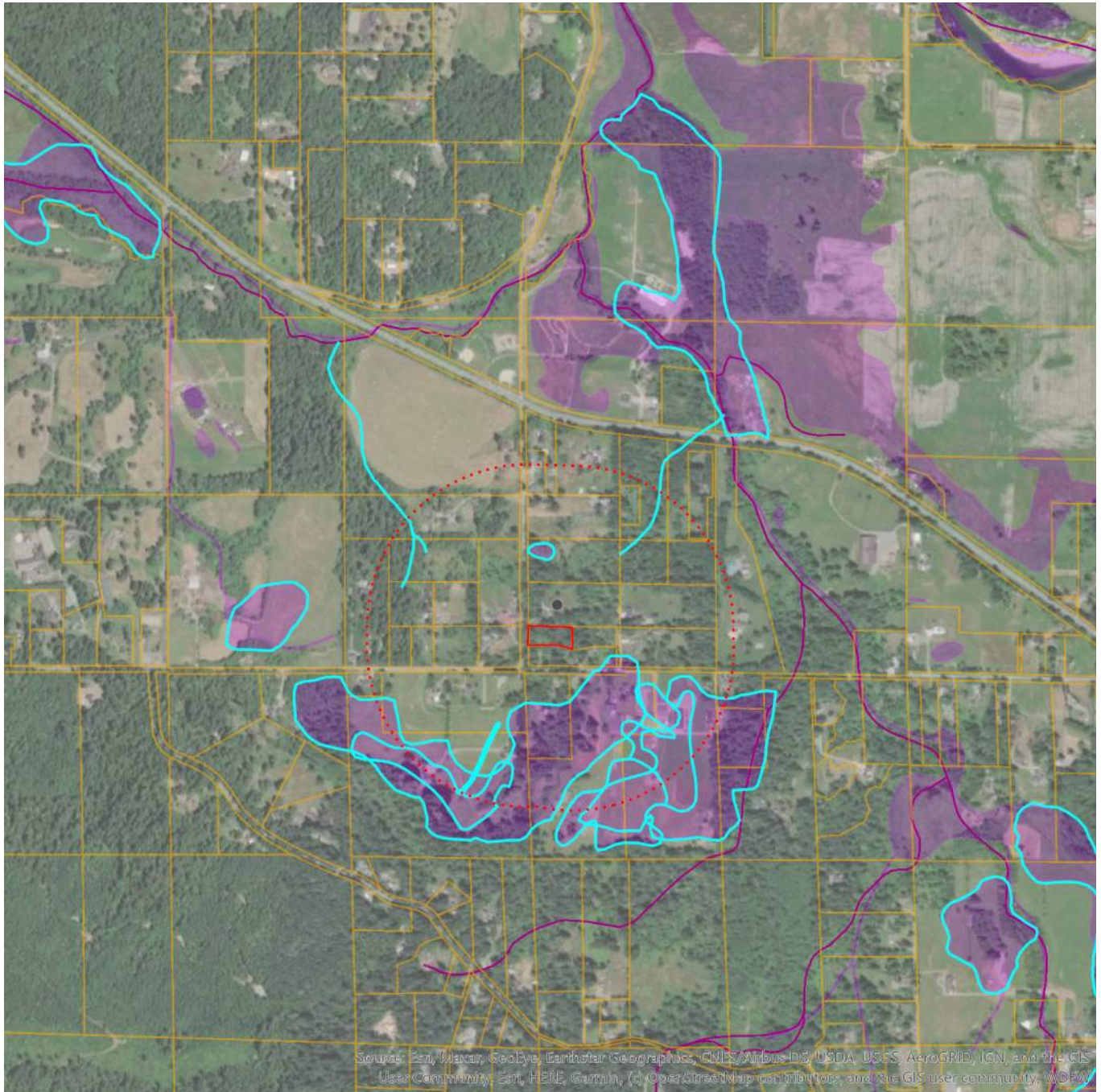
**King County**

Date: 11/21/2021

Notes:



# Priority Habitats and Species on the Web



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community, Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community, WDFW

**Buffer radius: 1200 Feet**

**Report Date: 11/23/2021**

**PHS Species/Habitats Overview:**

Occurrence Name	Federal Status	State Status	Sensitive Location
Fall Chum	N/A	N/A	No
Pink Salmon Odd Year	N/A	N/A	No
Coho	N/A	N/A	No
Winter Steelhead	N/A	N/A	No
Dolly Varden/ Bull Trout	N/A	N/A	No
Fall Chinook	N/A	N/A	No
Coho	Candidate	N/A	No
Wetlands	N/A	N/A	No
Freshwater Emergent Wetland	N/A	N/A	No
Gray wolf	Endangered	Endangered	Yes

### PHS Species/Habitats Details:

Fall Chum	
Scientific Name	<i>Oncorhynchus keta</i>
Priority Area	Occurrence/Migration
Accuracy	NA
Notes	LLID: 1219363475797, Fish Name: Chum Salmon, Run Time: Fall, Life History: Anadromous
Source Record	21594
Source Dataset	SWIFD
Federal Status	N/A
State Status	N/A
PHS Listing Status	PHS Listed Occurrence
Sensitive	N
SGCN	N
Display Resolution	AS MAPPED
More Info	<a href="http://wdfw.wa.gov/wlm/diversty/soc/soc.htm">http://wdfw.wa.gov/wlm/diversty/soc/soc.htm</a>
Geometry Type	Lines

Pink Salmon Odd Year	
Scientific Name	<i>Oncorhynchus gorbuscha</i>
Priority Area	Occurrence/Migration
Accuracy	NA
Notes	LLID: 1219340475758, Fish Name: Pink Salmon, Run Time: Odd Year, Life History: Anadromous
Source Record	21499
Source Dataset	SWIFD
Federal Status	N/A
State Status	N/A
PHS Listing Status	PHS Listed Occurrence
Sensitive	N
SGCN	N
Display Resolution	AS MAPPED
More Info	<a href="http://wdfw.wa.gov/wlm/diversty/soc/soc.htm">http://wdfw.wa.gov/wlm/diversty/soc/soc.htm</a>
Geometry Type	Lines

Pink Salmon Odd Year	
Scientific Name	<i>Oncorhynchus gorbuscha</i>
Priority Area	Occurrence/Migration
Accuracy	NA
Notes	LLID: 1219363475797, Fish Name: Pink Salmon, Run Time: Odd Year, Life History: Anadromous
Source Record	21597
Source Dataset	SWIFD
Federal Status	N/A
State Status	N/A
PHS Listing Status	PHS Listed Occurrence
Sensitive	N
SGCN	N
Display Resolution	AS MAPPED
More Info	<a href="http://wdfw.wa.gov/wlm/diversty/soc/soc.htm">http://wdfw.wa.gov/wlm/diversty/soc/soc.htm</a>
Geometry Type	Lines

Fall Chum	
Scientific Name	<i>Oncorhynchus keta</i>
Priority Area	Occurrence/Migration
Accuracy	NA
Notes	LLID: 1219340475758, Fish Name: Chum Salmon, Run Time: Fall, Life History: Anadromous
Source Record	21496
Source Dataset	SWIFD
Federal Status	N/A
State Status	N/A
PHS Listing Status	PHS Listed Occurrence
Sensitive	N
SGCN	N
Display Resolution	AS MAPPED
More Info	<a href="http://wdfw.wa.gov/wlm/diversty/soc/soc.htm">http://wdfw.wa.gov/wlm/diversty/soc/soc.htm</a>
Geometry Type	Lines

Coho	
Scientific Name	<i>Oncorhynchus kisutch</i>
Priority Area	Occurrence/Migration
Accuracy	NA
Notes	LLID: 1219246475782, Fish Name: Coho Salmon, Run Time: Unknown or not Applicable, Life History: Anadromous
Source Record	21078
Source Dataset	SWIFD
Federal Status	N/A
State Status	N/A
PHS Listing Status	PHS Listed Occurrence
Sensitive	N
SGCN	N
Display Resolution	AS MAPPED
More Info	<a href="http://wdfw.wa.gov/wlm/diversty/soc/soc.htm">http://wdfw.wa.gov/wlm/diversty/soc/soc.htm</a>
Geometry Type	Lines

Winter Steelhead	
Scientific Name	<i>Oncorhynchus mykiss</i>
Priority Area	Occurrence/Migration
Accuracy	NA
Notes	LLID: 1219363475797, Fish Name: Steelhead Trout, Run Time: Winter, Life History: Anadromous
Source Record	21598
Source Dataset	SWIFD
Federal Status	N/A
State Status	N/A
PHS Listing Status	PHS Listed Occurrence
Sensitive	N
SGCN	N
Display Resolution	AS MAPPED
More Info	<a href="http://wdfw.wa.gov/wlm/diversty/soc/soc.htm">http://wdfw.wa.gov/wlm/diversty/soc/soc.htm</a>
Geometry Type	Lines

Coho	
Scientific Name	<i>Oncorhynchus kisutch</i>
Priority Area	Occurrence/Migration
Accuracy	NA
Notes	LLID: 1219363475797, Fish Name: Coho Salmon, Run Time: Unknown or not Applicable, Life History: Anadromous
Source Record	21595
Source Dataset	SWIFD
Federal Status	N/A
State Status	N/A
PHS Listing Status	PHS Listed Occurrence
Sensitive	N
SGCN	N
Display Resolution	AS MAPPED
More Info	<a href="http://wdfw.wa.gov/wlm/diversty/soc/soc.htm">http://wdfw.wa.gov/wlm/diversty/soc/soc.htm</a>
Geometry Type	Lines



Dolly Varden/ Bull Trout	
Scientific Name	<i>Salvelinus malma/S. confluentus</i>
Priority Area	Occurrence/Migration
Accuracy	NA
Notes	LLID: 1219246475782, Fish Name: Bull Trout, Run Time: Unknown or not Applicable, Life History: Unknown
Source Record	21080
Source Dataset	SWIFD
Federal Status	N/A
State Status	N/A
PHS Listing Status	PHS Listed Occurrence
Sensitive	N
SGCN	N
Display Resolution	AS MAPPED
More Info	<a href="http://wdfw.wa.gov/wlm/diversty/soc/soc.htm">http://wdfw.wa.gov/wlm/diversty/soc/soc.htm</a>
Geometry Type	Lines

Coho	
Scientific Name	<i>Oncorhynchus kisutch</i>
Priority Area	Occurrence/Migration
Accuracy	NA
Notes	LLID: 1219340475758, Fish Name: Coho Salmon, Run Time: Unknown or not Applicable, Life History: Anadromous
Source Record	21497
Source Dataset	SWIFD
Federal Status	N/A
State Status	N/A
PHS Listing Status	PHS Listed Occurrence
Sensitive	N
SGCN	N
Display Resolution	AS MAPPED
More Info	<a href="http://wdfw.wa.gov/wlm/diversty/soc/soc.htm">http://wdfw.wa.gov/wlm/diversty/soc/soc.htm</a>
Geometry Type	Lines

Fall Chinook	
Scientific Name	<i>Oncorhynchus tshawytscha</i>
Priority Area	Occurrence/Migration
Accuracy	NA
Notes	LLID: 1219363475797, Fish Name: Chinook Salmon, Run Time: Fall, Life History: Anadromous
Source Record	21593
Source Dataset	SWIFD
Federal Status	N/A
State Status	N/A
PHS Listing Status	PHS Listed Occurrence
Sensitive	N
SGCN	N
Display Resolution	AS MAPPED
More Info	<a href="http://wdfw.wa.gov/wlm/diversty/soc/soc.htm">http://wdfw.wa.gov/wlm/diversty/soc/soc.htm</a>
Geometry Type	Lines

Winter Steelhead	
Scientific Name	<i>Oncorhynchus mykiss</i>
Priority Area	Occurrence/Migration
Accuracy	NA
Notes	LLID: 1219340475758, Fish Name: Steelhead Trout, Run Time: Winter, Life History: Anadromous
Source Record	21500
Source Dataset	SWIFD
Federal Status	N/A
State Status	N/A
PHS Listing Status	PHS Listed Occurrence
Sensitive	N
SGCN	N
Display Resolution	AS MAPPED
More Info	<a href="http://wdfw.wa.gov/wlm/diversty/soc/soc.htm">http://wdfw.wa.gov/wlm/diversty/soc/soc.htm</a>
Geometry Type	Lines

Dolly Varden/ Bull Trout	
Scientific Name	<i>Salvelinus malma/S. confluentus</i>
Priority Area	Occurrence/Migration
Accuracy	NA
Notes	LLID: 1219363475797, Fish Name: Bull Trout, Run Time: Unknown or not Applicable, Life History: Unknown
Source Record	21596
Source Dataset	SWIFD
Federal Status	N/A
State Status	N/A
PHS Listing Status	PHS Listed Occurrence
Sensitive	N
SGCN	N
Display Resolution	AS MAPPED
More Info	<a href="http://wdfw.wa.gov/wlm/diversty/soc/soc.htm">http://wdfw.wa.gov/wlm/diversty/soc/soc.htm</a>
Geometry Type	Lines

Fall Chinook	
Scientific Name	<i>Oncorhynchus tshawytscha</i>
Priority Area	Occurrence/Migration
Accuracy	NA
Notes	LLID: 1219340475758, Fish Name: Chinook Salmon, Run Time: Fall, Life History: Anadromous
Source Record	21495
Source Dataset	SWIFD
Federal Status	N/A
State Status	N/A
PHS Listing Status	PHS Listed Occurrence
Sensitive	N
SGCN	N
Display Resolution	AS MAPPED
More Info	<a href="http://wdfw.wa.gov/wlm/diversty/soc/soc.htm">http://wdfw.wa.gov/wlm/diversty/soc/soc.htm</a>
Geometry Type	Lines

Coho	
Scientific Name	<i>Oncorhynchus kisutch</i>
Priority Area	Occurrence
Accuracy	NA
Notes	LLID: 1219246475782, Stock Name: Snoqualmie Coho, Run: Unspecified, Status: Healthy
Source Record	3110
Source Dataset	SASI
Source Name	Not Given
Source Entity	WDFW Fish Program
Federal Status	Candidate
State Status	N/A
PHS Listing Status	PHS Listed Occurrence
Sensitive	N
SGCN	N
Display Resolution	AS MAPPED
More Info	<a href="http://wdfw.wa.gov/wlm/diversty/soc/soc.htm">http://wdfw.wa.gov/wlm/diversty/soc/soc.htm</a>
Geometry Type	Lines

Dolly Varden/ Bull Trout	
Scientific Name	<i>Salvelinus malma/S. confluentus</i>
Priority Area	Occurrence/Migration
Accuracy	NA
Notes	LLID: 1219340475758, Fish Name: Bull Trout, Run Time: Unknown or not Applicable, Life History: Unknown
Source Record	21498
Source Dataset	SWIFD
Federal Status	N/A
State Status	N/A
PHS Listing Status	PHS Listed Occurrence
Sensitive	N
SGCN	N
Display Resolution	AS MAPPED
More Info	<a href="http://wdfw.wa.gov/wlm/diversty/soc/soc.htm">http://wdfw.wa.gov/wlm/diversty/soc/soc.htm</a>
Geometry Type	Lines

Wetlands	
Priority Area	Aquatic Habitat
Site Name	PATTERSON CREEK WETLANDS.
Accuracy	1/4 mile (Quarter Section)
Notes	MANY SIGNIFICANT WETLANDS IN THIS DRAINAGE. A BEAVER COLONY INHABITS THE WETLAND LOCATED IN THE WEST HALF OF SECTION 11, T25N, R6E. THE MORE SIGNIFICANT WETLANDS IN THIS DRAINAGE CONSIST OF SHRUBY (WILLOW & SPIRAEA) COVER.
Source Record	902516
Source Dataset	PHSREGION
Source Name	MULLER, TED
Source Entity	WA Dept. of Fish and Wildlife
Federal Status	N/A
State Status	N/A
PHS Listing Status	PHS Listed Occurrence
Sensitive	N
SGCN	N
Display Resolution	AS MAPPED
ManagementRecommendations	<a href="http://www.ecy.wa.gov/programs/sea/wetlands/bas/index.html">http://www.ecy.wa.gov/programs/sea/wetlands/bas/index.html</a>
Geometry Type	Polygons

Freshwater Emergent Wetland	
Priority Area	Aquatic Habitat
Site Name	N/A
Accuracy	NA
Notes	Wetland System: Freshwater Emergent Wetland - NWI Code: PEM1A
Source Dataset	NWIIWetlands
Source Name	Not Given
Source Entity	US Fish and Wildlife Service
Federal Status	N/A
State Status	N/A
PHS Listing Status	PHS Listed Occurrence
Sensitive	N
SGCN	N
Display Resolution	AS MAPPED
ManagementRecommendations	<a href="http://www.ecy.wa.gov/programs/sea/wetlands/bas/index.html">http://www.ecy.wa.gov/programs/sea/wetlands/bas/index.html</a>
Geometry Type	Polygons

Freshwater Emergent Wetland	
Priority Area	Aquatic Habitat
Site Name	N/A
Accuracy	NA
Notes	Wetland System: Freshwater Emergent Wetland - NWI Code: PEM1A
Source Dataset	NWIIWetlands
Source Name	Not Given
Source Entity	US Fish and Wildlife Service
Federal Status	N/A
State Status	N/A
PHS Listing Status	PHS Listed Occurrence
Sensitive	N
SGCN	N
Display Resolution	AS MAPPED
ManagementRecommendations	<a href="http://www.ecy.wa.gov/programs/sea/wetlands/bas/index.html">http://www.ecy.wa.gov/programs/sea/wetlands/bas/index.html</a>
Geometry Type	Polygons

Freshwater Emergent Wetland	
Priority Area	Aquatic Habitat
Site Name	N/A
Accuracy	NA
Notes	Wetland System: Freshwater Emergent Wetland - NWI Code: PEM1C
Source Dataset	NWIIWetlands
Source Name	Not Given
Source Entity	US Fish and Wildlife Service
Federal Status	N/A
State Status	N/A
PHS Listing Status	PHS Listed Occurrence
Sensitive	N
SGCN	N
Display Resolution	AS MAPPED
ManagementRecommendations	<a href="http://www.ecy.wa.gov/programs/sea/wetlands/bas/index.html">http://www.ecy.wa.gov/programs/sea/wetlands/bas/index.html</a>
Geometry Type	Polygons

Freshwater Emergent Wetland	
Priority Area	Aquatic Habitat
Site Name	N/A
Accuracy	NA
Notes	Wetland System: Freshwater Emergent Wetland - NWI Code: PEM1C
Source Dataset	NWIIWetlands
Source Name	Not Given
Source Entity	US Fish and Wildlife Service
Federal Status	N/A
State Status	N/A
PHS Listing Status	PHS Listed Occurrence
Sensitive	N
SGCN	N
Display Resolution	AS MAPPED
ManagementRecommendations	<a href="http://www.ecy.wa.gov/programs/sea/wetlands/bas/index.html">http://www.ecy.wa.gov/programs/sea/wetlands/bas/index.html</a>
Geometry Type	Polygons

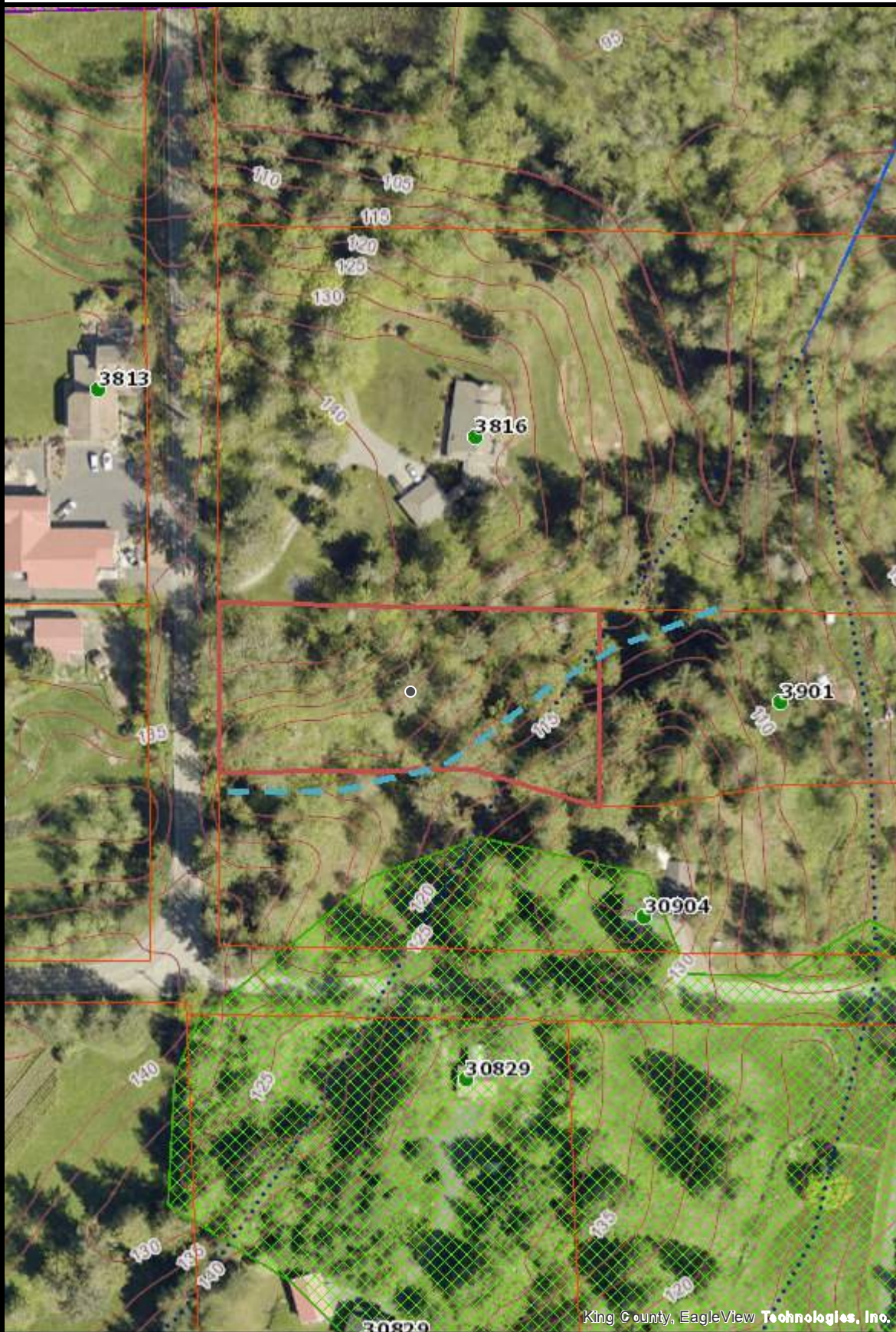
Freshwater Emergent Wetland	
Priority Area	Aquatic Habitat
Site Name	N/A
Accuracy	NA
Notes	Wetland System: Freshwater Emergent Wetland - NWI Code: PEM1C
Source Dataset	NWIIWetlands
Source Name	Not Given
Source Entity	US Fish and Wildlife Service
Federal Status	N/A
State Status	N/A
PHS Listing Status	PHS Listed Occurrence
Sensitive	N
SGCN	N
Display Resolution	AS MAPPED
ManagementRecommendations	<a href="http://www.ecy.wa.gov/programs/sea/wetlands/bas/index.html">http://www.ecy.wa.gov/programs/sea/wetlands/bas/index.html</a>
Geometry Type	Polygons

Gray wolf	
Scientific Name	<i>Canis lupus</i>
Notes	This polygon mask represents one or more records of the above species or habitat occurrence. Contact PHS Data Release (360-902-2543) for obtaining information about masked sensitive species and habitats.
Federal Status	Endangered
State Status	Endangered
PHS Listing Status	PHS Listed Occurrence
Sensitive	Y
SGCN	Y
Display Resolution	TOWNSHIP

DISCLAIMER. This report includes information that the Washington Department of Fish and Wildlife (WDFW) maintains in a central computer database. It is not an attempt to provide you with an official agency response as to the impacts of your project on fish and wildlife. This information only documents the location of fish and wildlife resources to the best of our knowledge. It is not a complete inventory and it is important to note that fish and wildlife resources may occur in areas not currently known to WDFW biologists, or in areas for which comprehensive surveys have not been conducted. Site specific surveys are frequently necessary to rule out the presence of priority resources. Locations of fish and wildlife resources are subject to variation caused by disturbance, changes in season and weather, and other factors. WDFW does not recommend using reports more than six months old.



# King County iMap 2019 Aerial & Environmental Layer



## Legend

- Address points
- Address labels
- Parcels
- index contours - 100 foot
- contours - 5 foot (below 1000 feet) and 10 foot
- Potential landslide hazard areas (2016, see explanation-->)
- Erosion hazard (1990 SAO)
- Seismic hazard (1990 SAO)
- Coal mine hazard (1990 SAO)

## Stream (1990 SAO)

- class 1
- class 2 perennial
- class 2 salmonid
- class 3
- unclassified
- Wetland (1990 SAO)

King County, EagleView Technologies, Inc.

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Date: 11/28/2021

Notes:



**King County**

# List of Species Protected in the King County Comprehensive Plan and CAO

This list is current as of June 1, 2009, and represents species protected in King County's [Comprehensive Plan](#) via the [Critical Areas Ordinance \(CAO\)](#). Asterisks (\*) indicate which species have specified development standards in the CAO. Federal and State status codes are defined at the bottom of the list. These are grouped by animal type and then alphabetized by common name.

COMMON NAME	SCIENTIFIC NAME	Animal Type	Federal STATUS	State STATUS	notes on presence in King County
Larch Mountain Salamander	<i>Plethodon larselli</i>	Amphibian	FCo	SS	in King County
Northern Red-legged frog	<i>Rana aurora</i>	Amphibian	none	none	
Oregon Spotted Frog	<i>Rana pretiosa</i>	Amphibian	FC	SE	historic presence; no current populations known
Van Dyke's Salamander	<i>Plethodon vandykei</i>	Amphibian	FCo	SC	Eastern King County near Snoqualmie Pass
Western Toad	<i>Bufo boreas</i>	Amphibian	FCo	SC	Present and breeding in King County
Beller's Ground Beetle	<i>Agonum belleri</i>	Beetle	FCo	SC	In WA, only known in King County
Bog Idol Leaf Beetle (formerly known as	<i>Donacia idola</i>	Beetle	none	SC	only known in Snohomish County in WA; is new PHS

Long-horned Leaf Beetle)					list wrong? Has it as only King county
Hatch's Click Beetle	<i>Eanus hatchii</i>	Beetle	FCo	SC	Endemic: only known in King County (historically also Snohomish County, but no longer)
American bittern	<i>Botaurus lentiginosus</i>	Bird	none	none	
American three-toed woodpecker	<i>Picoides tridactylus</i>	Bird	none	none	Rare in King County with only three BBA records near Cascade crest, including "confirmed" breeding pair at Pyramid Creek. Sparse occurrence does not support generous range on west side of crest mapped by Washington Gap report (Smith et al. 1997).
American White Pelican	<i>Pelecanus erythrorhynchos</i>	Bird	none	SE	Eastern WA; rare in K.C.; 5+ records
Bald Eagle*	<i>Haliaeetus leucocephalus</i>	Bird	FCo	SS	nesting in King County
Band-tailed pigeon	<i>Columba fasciata</i>	Bird	none	none	

Barrow's Goldeneye	<i>Bucephala islandica</i>	Bird	none	none	
Belted kingfisher	<i>Ceryle alcyon</i>	Bird	none	none	
Black scoter	<i>Melanitta nigra</i>	Bird	none	none	
Black-Backed Woodpecker	<i>Picoides arcticus</i>	Bird	none	SC	confirmed breeding in eastern King County
Blue-winged teal	<i>Anas discors</i>	Bird	none	none	
Brandt's Cormorant	<i>Phalacrocorax penicillatus</i>	Bird	none	SC	winters in King County waters
Brant	<i>Branta bernicla</i>	Bird	none	none	
Brown Pelican	<i>Pelecanus occidentalis</i>	Bird	FE	SE	outer coast; rare in K.C.; 5+ records
Burrowing Owl	<i>Athene cunicularia</i>	Bird	FCo	SC	E WA; not in King County (fewer than 5 records)
Cassin's Finch	<i>Carpodacus cassinii</i>	Bird	none	none	IUCN list: Near threatened
Cassin's Auklet	<i>Ptychoramphus aleuticus</i>	Bird	FCo	SC	outer coast; not King County; fewer than 5 records in K.C.

Cinnamon teal	<i>Anas cyanoptera</i>	Bird	none	none	
Common Goldeneye	<i>Bucephala clangula</i>	Bird	none	none	
Common Loon	<i>Gavia immer</i>	Bird	none	SS	breeding in King County
Common Murre	<i>Uria aalge</i>	Bird	none	SC	winters in King County waters
Flammulated Owl	<i>Otus flammeolus</i>	Bird	none	SC	E WA; not in King County; fewer than 5 records in K.C.
Golden Eagle	<i>Aquila chrysaetos</i>	Bird	none	SC	confirmed breeding in eastern King County
Hairy Woodpecker	<i>Picoides villosus</i>	Bird	none	none	
Harlequin duck	<i>Histrionicus histrionicus</i>	Bird	none	none	
Hooded merganser	<i>Lophodytes cucullatus</i>	Bird	none	none	
Lewis' Woodpecker	<i>Melanerpes lewis</i>	Bird	none	SC	E WA; not supposed to be in King County; record from 1900s post-logging on Vashon

Marbled Murrelet*	<i>Brachyramphus marmoratus</i>	Bird	FT	ST	probable nesters in King County
Merlin	<i>Falco columbarius</i>	Bird	none	SC	winters in and migrates through King County; no breeding
Mountain chickadee	<i>Poecile gambeli</i>	Bird	none	none	
Northern Goshawk*	<i>Accipiter gentilis</i>	Bird	FCo	SC	few breeding in King County
Olive-sided Flycatcher	<i>Contopus cooperi</i>	Bird	none	none	IUCN list: Near threatened
Oregon Vesper Sparrow	<i>Pooecetes gramineus affinis</i>	Bird	FCo	SC	not in King County; rare in K.C.; 5+ records
Peregrine Falcon*	<i>Falco peregrinus</i>	Bird	FCo	SS	in King County
Pileated Woodpecker	<i>Dryocopus pileatus</i>	Bird	none	SC	confirmed breeding in King County
Purple Finch	<i>Carpodacus purpureus</i>	Bird	none	none	
Purple Martin	<i>Progne subis</i>	Bird	none	SC	confirmed breeding in King County

Ruffed grouse	<i>Bonasa umbellus</i>	Bird	none	none	Fairly common in hardwood and mixed woodlands at low to middle elevations throughout forested parts of four-county area, especially along brushy riparian corridors.
Sandhill Crane	<i>Grus canadensis</i>	Bird	none	SE	Eastern WA breeder; some migrate through K.C.
Snowy Plover	<i>Charadrius alexandrinus</i>	Bird	FT	SE	SW coast of WA; not their habitat or range; fewer than 5 records in K.C.
Sooty grouse	<i>Dendragapus fuliginosus</i>	Bird	none	none	
Spotted Owl*	<i>Strix occidentalis</i>	Bird	FT	SE	confirmed breeding
Streaked Horned Lark	<i>Eremophila alpestris strigata</i>	Bird	FC	SE	extremely unlikely; if in county, extreme NE edge
Surf scoter	<i>Melanitta perspicillata</i>	Bird	none	none	
Upland Sandpiper	<i>Bartramia longicauda</i>	Bird	none	SE	Eastern WA, if in WA at all; fewer than 5 records in K.C.

Vaux's Swift*	<i>Chaetura vauxi</i>	Bird	none	SC	confirmed breeding in King County
Western Grebe	<i>Aechmophorus occidentalis</i>	Bird	none	SC	winters in and migrates through King County; no breeding
Western Meadowlark	<i>Sturnella neglecta</i>	Bird	none	none	
White-winged scoter	<i>Melanitta fusca</i>	Bird	none	none	
Wood duck	<i>Aix sponsa</i>	Bird	none	none	
Yellow-Billed Cuckoo	<i>Coccyzus americanus</i>	Bird	FC	SC	historic presence; no current populations known in WA
Johnson's Hairstreak	<i>Mitoura johnsoni</i>	Butterfly/Moth	none	SC	have been recorded in King County in suitable habitat: lowland coniferous forests that contain dwarf mistletoes of the genus <i>Arceuthobium</i> .
Valley Silverspot	<i>Speyeria zerene bremnerii</i>	Butterfly/Moth	FCo	SC	may be in King Co.
Black Rockfish	<i>Sebastes melanops</i>	Fish	none	SC	in King County waters



Bocaccio Rockfish	<i>Sebastes paucispinis</i>	Fish	FE	SC	potentially in King County waters
Brown Rockfish	<i>Sebastes auriculatus</i>	Fish	FCo	SC	in King County waters
Bull Trout	<i>Salvelinus confluentus</i>	Fish	FT	SC	in King County
Canary Rockfish	<i>Sebastes pinniger</i>	Fish	FT	SC	potentially in King County waters
Chinook Salmon (Puget Sound)	<i>Oncorhynchus tshawytscha</i>	Fish	FT	SC	in King County
chum salmon	<i>Oncorhynchus keta</i>	fish	none	none	
coastal resident/searun cutthroat	<i>Oncorhynchus clarki clarki</i>	fish	none	none	
coho/silver salmon	<i>Oncorhynchus kisutch</i>	fish	none	none	
Copper Rockfish	<i>Sebastes caurinus</i>	Fish	FCo	SC	in King County waters
Dolly Varden	<i>Salvelinus malma</i>	fish	none	none	
English sole	<i>Parophrys vetulus</i>	fish	none	none	

Green sturgeon	<i>Acipenser Medirostris</i>	fish	none	Monitor	
Greenstriped Rockfish	<i>Sebastes elongatus</i>	Fish	none	SC	potentially in King County waters
kokanee salmon	<i>Onchorhynchus nerka</i>	fish	none	none	
lingcod	<i>Ophiodon elongatus</i>	fish	none	none	
longfin smelt	<i>Spirinchus thaleichthys</i>	fish	none	none	
Olympic Mudminnow	<i>Novumbra hubbsi</i>	Fish	none	SS	possibly in King County; tho' records could have been from planted fish
Pacific Cod	<i>Gadus macrocephalus</i>	Fish	FCo	SC	King County waters
Pacific Hake	<i>Merluccius productus</i>	Fish	FCo	SC	King County waters
Pacific Herring	<i>Clupea pallasii</i>	Fish	FCo	SC	spawning grounds in Quartermaster Harbor, Vashon-Maury Island
Pacific sand lance	<i>Ammodytes hexapterus</i>	fish	none	none	

pink salmon	<i>Oncorhynchus gorbuscha</i>	fish	none	none	
Pygmy Whitefish	<i>Prosopium coulteri</i>	Fish	FCo	SS	in King County
Quillback Rockfish	<i>Sebastes maliger</i>	Fish	FCo	SC	in King County waters
rainbow trout	<i>Oncorhynchus mykiss</i>	fish	none	none	
Redstripe Rockfish	<i>Sebastes proriger</i>	Fish	none	SC	in King County waters
River Lamprey	<i>Lampetra ayresi</i>	Fish	FCo	SC	in King County
rock sole	<i>Pleuronectes bilineatus</i>	fish	none	none	
sockeye/red salmon	<i>Onchorhynchus nerka</i>	fish	none	none	
Steelhead (Puget Sound)	<i>Oncorhynchus mykiss</i>	Fish	FT	none	in King County watercourses
surfsmelt	<i>Hypomesus pretiosus</i>	fish	none	none	
Walleye Pollock (So. Puget Sound)	<i>Theragra chalcogramma</i>	Fish	FCo	SC	possible in King County waters

White sturgeon	<i>Acipenser transmontanus</i>	fish	none	none	
Yelloweye Rockfish	<i>Sebastes ruberrimus</i>	Fish	FT	SC	in King County waters
Yellowtail Rockfish	<i>Sebastes flavidus</i>	Fish	none	SC	in King County waters
Black Right Whale	<i>Balaena glacialis</i>	Mammal	FE	SE	coastal - offshore; visitor to King County waters
Columbian black-tailed deer		Mammal	none	none	
Douglas Squirrel	<i>Tamiasciurus douglasii</i>	Mammal	none	none	
elk in their historic range		Mammal	none	none	
Fin Whale	<i>Balaenoptera physalus</i>	Mammal	FE	SE	coastal - offshore; visitor to King County waters
Fisher	<i>Martes pennanti</i>	Mammal	FC	SE	extirpated; historically present
Gray Whale	<i>Eschrichtius robustus</i>	Mammal	none	SS	coastal - offshore; visitor to King County waters

Gray Wolf	<i>Canis lupus</i>	Mammal	FE	SE	possible; former range in Cascades of King County
Grizzly Bear	<i>Ursus arctos</i>	Mammal	FT	SE	possible, but highly unlikely in King County
Humpback Whale	<i>Megaptera novaeangliae</i>	Mammal	FE	SE	coastal - offshore; visitor to King County waters
Killer Whale	<i>Orcinus orca</i>	Mammal	FE	SE	potentially the entire Sound; in K.C. waters
Lynx	<i>Lynx canadensis</i>	Mammal	FT	ST	extremely unlikely, but theoretically possible in extreme NE corner of county
Marten	<i>Martes americana</i>	Mammal	none	none	
mink	<i>Mustela vison</i>	Mammal	none	none	
mountain goat	<i>Oreamnos americanus</i>	Mammal	none	none	
Pacific Harbor Porpoise	<i>Phocoena phocoena</i>	Mammal	none	SC	range includes King County waters
Sea Otter	<i>Enhydra lutris</i>	Mammal	FCo	SE	outer coast; visitor to King County

Steller Sea Lion	<i>Eumetopias jubatus</i>	Mammal	FT	ST	outer coast; visitor to King County
Townsend Chipmunk	<i>Tamias townsendii</i>	Mammal	none	none	
Townsend's Big-Eared Bat*	<i>Corynorhinus townsendii</i>	Mammal	FCo	SC	presumed in King County
Wolverine	<i>Gulo gulo</i>	Mammal	FCo	SC	possible in King County
Olympia Oyster	<i>OSTREA conchaphila</i>	Mollusk	none	SC	not present currently or historically in King County waters; PHS data indicates otherwise
Oregon floater	<i>Anodonta oregonensis</i>	Mollusk	none	Monitor	
Western pearlshell mussel	<i>Margaritifera falcata</i>	Mollusk	none	Monitor	
Western ridged mussel	<i>Gonidea angulata</i>	Mollusk	none	Monitor	
Alligator lizard	<i>Elgaria coerulea</i>	Reptile	none	none	
western fence lizard	<i>Sceloporus occidentalis</i>	Reptile	none	none	

Western Pond Turtle	<i>Actinemys marmorata</i>	Reptile	FCo	SE	there are just a few historic records in KC
Dungeness crab	<i>Metacarcinus magister</i>	Shellfish	none	none	
Geoduck clam	<i>Panopea generosa</i>	Shellfish	none	none	
Pacific oyster	<i>Crassostrea gigas</i>	Shellfish	none	none	
Pandalid shrimp	<i>Pandalus</i> species, and <i>Pandalopsis dispar</i> . Spot (Prawn) <i>Pandalus platyceros</i> Sidestripe <i>Pandalopsis dispar</i> Dock (Coonstripe) <i>Pandalus danae</i> Humpback (Coonstripe) <i>Pandalus hypsinotus</i> Humpy (Coonstripe) <i>Pandalus goniurus</i> Northern (Rough) Pink <i>Pandalus eous</i> Ocean (Smooth) Pink <i>Pandalus jordani</i>	Shellfish	none	none	
Red Urchin	<i>Strongylocentrotus franciscanus</i>	Shellfish	none	none	

## Status Codes:

- **FE:** Federal Endangered
- **FT:** Federal Threatened
- **FC:** Federal Candidate
- **FCo:** Federal Species of Concern
- **SE:** State Endangered, defined in [WAC 232-12-297](#), Section 2.4, to include "any wildlife species native to the state of Washington that is seriously threatened with extinction throughout all or a significant portion of its range within the state."
- **ST:** State Threatened, defined in [WAC 232-12-297](#), Section 2.5, to include "any wildlife species native to the state of Washington that is likely to become an endangered species within the foreseeable future throughout a significant portion of its range within the state without cooperative management or removal of threats."
- **SS:** State Sensitive, defined in [WAC 232-12-297](#), Section 2.6, to include "any wildlife species native to the state of Washington that is vulnerable or declining and is likely to become endangered or threatened throughout a significant portion of its range within the state without cooperative management or removal of threats."
- **SC:** State Candidate, defined in WDFW Policy M-6001 to include fish and wildlife species that the Department will review for possible listing as State Endangered, Threatened, or Sensitive. A species will be considered for designation as a State Candidate if sufficient evidence suggests that its status may meet the listing criteria defined for State Endangered, Threatened, or Sensitive.
- **SM:** State Monitor Species.

1. State Monitor Species are those that require management, survey, or data emphasis for one or more of the following reasons:

- a. They were classified as endangered, threatened, or sensitive within the previous five years.
- b. They require habitat that is of limited availability during some portion of their life cycle.
- c. They are indicators of environmental quality.
- d. There are unresolved taxonomic questions that may affect their candidacy for listing as endangered, threatened, or sensitive species.

2. State Monitor Species will be managed by the Department, as needed, to prevent them from becoming endangered, threatened, or sensitive.

3. Species already classified in a category that provides adequate management emphasis, survey work, and data maintenance (e.g., game animals, game birds, furbearers, etc.) will not be designated as State Monitor Species.

## Related Information

- [Animals, Plants and Habitat](#)
- [Wetlands](#)

## Related Agencies

- [Department of Natural Resources and Parks](#)
- [Water and Land Resources Division](#)

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