Vegetation and Habitat Monitoring Trip Report for the Westside Solar Project

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Prepared for: Westside Solar, LLC 1414 Raleigh Road, Suite 210 Chapel Hill, NC 27517

Prepared by: Ecology and Environment, Inc. 720 3rd Ave, Suite 1700 Seattle, WA 98104

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ist of Abbreviations and Acronyms

Applicant Westside Solar, LLC

E & E Ecology and Environment, Inc.

GIS geographic information system

IPaC Information for Planning and Consulting

PHS Priority Habitats and Species

Project Westside Solar Project

PSE Puget Sound Energy

PV photovoltaic

RCW Revised Code of Washington

SEPA State Environmental Policy Act

1 Introduction and Purpose

Westside Solar, LLC (Applicant) is proposing to construct and operate the Westside Solar Project (Project), a photovoltaic (PV) solar power production facility. The Project would be located adjacent to Westside Road near the town of South Cle Elum, Kittias County, Washington (Figure 1). The Applicant has entered into an agreement with Puget Sound Energy (PSE) for an interconnection with PSE's electrical distribution system.

The Project design would include arrays of PV solar panels on single-axis trackers that would track the sun's movement east to west throughout the day, inverters and transformers, and associated wiring and electrical interconnection equipment. The Project site would be surrounded by a chain-link fence per the requirements of the Kittitas County Code and the National Electrical Code

The Project would be located in the Southwest ¼ of Section 33, Township 20 North, Range 15 East of the Willamette Meridian. It would be situated within six parcels that total approximately 46 acres. The Project site is bounded by Westside Road to the south and Iron Horse Trail and North Milwaukee Avenue to the north. Iron Horse State Park is located east of the Project site. The parcels are zoned for Rural Residential Land Use - Agriculture 5, as defined in Kittitas County Code Chapter 17.28A. The Project site is surrounded by residential and commercial properties.

On June 3, 2019, an Ecology and Environment, Inc. (E & E) environmental scientist and an E & E biologist visited the Project site to accomplish the following objectives:

- Conduct a noxious weed survey to identify the species and relative density of Kittitas County-designated noxious weeds;
- Conduct a habitat survey to identify habitat types and the associated dominant flora and fauna;
- Conduct a wildlife survey to identify wildlife and any habitat associated with state and federally listed threatened/endangered species.

Included with this Vegetation and Habitat Monitoring Trip Report are attachments associated with the objectives outlined above, including:

- Kittitas County Noxious Weed List (Attachment A);
- Photographic Documentation (Attachment B);
- E & E Field Logbook (Attachment C); and
- U.S. Fish and Wildlife Service Information for Planning and Consulting (IPaC) Project Area Export (Appendix D).

This trip report provides an overview of the survey methodology and presents survey results and conclusions to supplement the Washington State Environmental Policy Act (SEPA) Checklist for the Project.

2 Methods

This section outlines the methods used by E & E to conduct the noxious weed and habitat surveys. Each survey consisted of two phases: (1) desktop analysis of relevant resources prior to the Project site visit; and (2) the Project site visit. An online geographic information system (GIS) map-viewer was established to facilitate field data collection.

2.1 Noxious Weed Survey

For the purposes of this trip report, a noxious weed is legally defined in Revised Code of Washington (RCW) 17.10 as "...a plant that when established is highly destructive, competitive, or difficult to control by agricultural or chemical practices" (Kittias County Noxious Weed Control Board 2019).

Desktop Analysis

The desktop analysis for the noxious weed survey consisted of compiling a list of plant species designated as noxious weeds by Kittitas County and the State of Washington that had the potential to occur within the Project site. Appendix A contains the 2017 Kittitas County Noxious Weed List, which includes all Class A and Class B designated noxious weeds described in the 2017 Washington State Noxious Weed List, plus Class B non-designated and Class C weeds (Kittitas County Noxious Weed Control Board 2017).

Field Survey

The E & E field team traversed the Project site to establish a representative overview of major vegetation categories and topographic features. Within each distinct vegetated area and topographic feature, the field team identified noxious weeds and estimated the approximate density of each weed species throughout the area or feature.

Where a single noxious weed or a group of co-located weeds from the Kittitas County list were identified, the E & E field team noted the location using the GIS map-viewer software accessed in the field using an electronic tablet. Photographs were taken using the electronic tablet (Appendix B) and attached to the noxious weed map location in the GIS map-viewer. Field notes were also recorded in a logbook (Appendix C).

2.2 Habitat Survey

Desktop Analysis

Desktop analysis for the habitat survey consisted of compiling a list of special status wildlife species potentially occurring within the Project site. The desktop analysis included a review of state and federal rare species lists and information on the required habitat for any of the potentially occurring species. Sources consulted included:

- State of Washington Priority Habitats and Species List (Washington State Department of Fish and Wildlife 2019); and
- Federally Listed, Proposed, Candidate Species, Critical Habitat, and Migratory Birds with the Potential to Occur Within the Project Area (unofficial resource list) (U.S. Fish and Wildlife Service 2019) (Appendix D).

Field Survey

E & E biologists conducted a Project site-wide habitat transect survey, with a focus on identifying distinct habitat types. Within each habitat type, E & E identified the dominant vegetation and recorded wildlife observations in an electronic tablet and logbook.

Other wildlife observations (e.g., bird species, scat, burrows) were recorded as they were encountered by the E & E team.

3 Results

3.1 Noxious Weed Survey

Table 1 contains the noxious weed species identified by the E & E field team within the Project site. Table 1 lists the species from most to least abundant throughout the Project site and provides an approximate percent cover for each. Spotted knapweed (*Centaurea stoebe*) and Russian knapweed (*Acroptilon repens*) are the most abundant species and are widely distributed throughout much of the Project site; however, the knapweed species were not observed in the ponderosa pine and arid upland along the northeastern border of the Project site and in the wooded wetlands in the southeastern portion of the Project site.

Table 1	Noxious Weed	Species	Identified within	the Project Site
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Common Name	Scientific Name	Status in Washington State ¹	Approximate Percent Cover ²
Spotted knapweed	Centaurea stoebe	Class B	20%³
Russian knapweed	Acroptilon repens	Class B	20%
Sulfur cinquefoil	Potentilla recta	Class B	10%
Oxeye daisy	Leucanthemum vulgare	Class C	5%
Canada thistle	Cirsium arvense	Class C	5%
Dalmatian toadflax	Linaria dalmatica	Class B	3%
Reed canary grass	Phalaris arundinacea	Non-native	3%
Absinth wormwood	Artemisia absinthium	Class C	<1%
Field bindweed	Convolvulous arvensis	Class C	<1%
Yellow salsify	Tragopogon dubius	Non-native	<1%
Bulbous bluegrass	Poa bulbosa	Non-native	<1%

Table 1 Noxious Weed Species Identified within the Project Site

Common Name Scientific Name	Status in Washington State ¹	Approximate Percent Cover ²
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Notes:

- Class A Weeds: Non-native species whose distribution in Washington is still limited. Preventing new infestations and eradicating existing infestations are the highest priority. Eradication of all Class A plants is required by law.

 Class B Weeds: Non-native species presently limited to portions of the state. Species are designated for control in regions where they are not yet widespread. Preventing new infestations in these areas is a high priority.

 Class C Weeds: Noxious weeds that are already widespread in Washington or are of special interest to the state's agricultural industry. The Class C status allows counties to enforce control, if locally desired.
- Percent cover at the time of the field survey. These are not absolute percentages and should be interpreted as relative values to provide Project site-wide context.
- Combined percent cover of knapweed species.

3.2 Habitat Survey

The Project site is characterized by the following habitat types, as defined in Johnson and O'Neil (2001):

- Agriculture, Pasture, and Mixed Environs (Unimproved Pasture): This is the dominant habitat type within the Project site.
- Ponderosa Pine Forest and Woodlands: This habitat type is concentrated in the northeastern section of the Project site, abutting Iron Horse Trail. It is interspersed with Shrub-Steppe habitat.
- Shrub-Steppe: This habitat type is concentrated along the northern border of the Project site, abutting Iron Horse Trail.
- Lakes, Rivers, Ponds, and Reservoirs: One freshwater pond is in the northwest corner of the Project site and extends outside of site boundaries to the west.
- Herbaceous Wetlands: This habitat type, in combination with Eastside Riparian Wetlands, abuts the southern boundary of the Agriculture, Pasture, and Mixed Environs (Unimproved Pasture) habitat type.
- Eastside Riparian Wetlands: This habitat type, in combination with Herbaceous Wetlands, abuts the southern boundary of the Agriculture, Pasture, and Mixed Environs (Unimproved Pasture) habitat type.

Agriculture, Pasture, and Mixed Environs (Unimproved Pasture) is the dominant vegetation category found within the Project site. Herbaceous Wetlands and Eastside Riparian Wetlands fringe the pasture to the south. Ponderosa Pine Forest and Woodlands and Shrub-Steppe vegetation types are concentrated along the northern border of the Project site.

An informal list generated from the U.S. Fish and Wildlife Service IPaC web viewer includes eight wildlife species that have the potential to occur within the Project site (U.S. Fish and Wildlife Service 2019). A review of the State of Washington Priority Habitats and Species

(PHS) List resulted in two wildlife species that have the potential to occur near the Project site. Table 2 outlines these species and their status in the state of Washington.

Table 2 Special Status Species with the Potential to Occur within the Project Site

Common Name	Scientific Name	Status in Washington State	Notes
Federally Listed Special S	Status Species (Informal L	.ist)	
Bull trout	Salvelinus confluentus	Threatened	
Canada lynx	Lynx canadensis	Threatened	
Gray wolf	Canis lupus	Endangered	
Gray wolf (Western Distinct Population Segment)	Canis lupus	Proposed Endangered	
Marbled murrelet	Brachyramphus marmoratus	Threatened	
North American wolverine	Gulo gulo luscus	Proposed Threatened	
Northern spotted owl	Strix occidentalis caurina	Threatened	
Yellow-billed cuckoo	Coccyzus americanus	Threatened	
State Listed Special Statu	s Species		
Northern spotted owl	Strix occidentalis	Endangered	Management Buffer, Priority Habitat Area: Any Occurrence ¹
Sharp-tailed snake	Contia tenuis	Candidate	Priority Habitat Area: Any Occurrence

Note:

While several federally listed species have the potential to occur within the Project site, the site is outside of the designated critical habitat for those species. However, the Project site is located within the Washington State-designated management buffer and the priority habitat area for the northern spotted owl (*Strix occidentalis caurina*). The Project site is also located within the priority habitat area for the sharp-tailed snake (*Contia tenuis*). Occurrences of the Sharp-tailed snake have been documented in the area. The resolution of the occurrence data from the public-facing Washington State Department of Fish and Wildlife PHS mapping service encompasses a quarter-Township, or approximately 9 square miles (Washington State Department of Fish and Wildlife 2018). No special status species or potential special status species habitats were observed within the Project site during the site visit. Furthermore, the potentially viable habitat within the Project site is highly fragmented due to its proximity to nearby residences and the town of Cle Elum.

The field team observed a single red-tailed hawk (*Buteo jamaicensis*), nesting American goldfinches (*Spinus tristis*), and red-winged blackbirds (*Agelaius phoeniceus*). Deer scat was observed in the ponderosa pine stand, and a single collapsed burrow was observed in one of the herbaceous wetlands.

Any Occurrence: Applies to a priority species with limiting habitat that is not known or to a species that is so rare that any occurrence is important in a land use decision (Washington Department of Fish and Wildlife 2019).

4 Conclusions

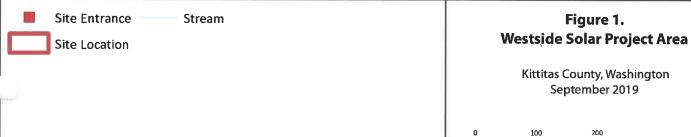
Several Kittitas County-designated noxious weed species were observed within the Project site. Refer to the Noxious Weed Management Plan for proposed best management practices to control the spread of noxious weeds during planning, construction, and operation of the facility.

No state or federally listed endangered or threatened species or habitat were observed within the Project site. However, due to the overlap of the Project site with a Washington State-designated management buffer for the northern spotted owl and the documented occurrences of the sharp-tailed snake in the vicinity, the Applicant has initiated the consultation with the Washington State Department of Fish and Wildlife to review the Project's design.

5 References

- Johnson, D.H. and T.A. O'Neil (Managing Directors). 2001. Wildlife-Habitat Relationships in Oregon and Washington. Oregon State University Press, Corvallis, Oregon. 768 pp.
- Kittitas County Noxious Weed Control Board. 2019. Laws. Accessed June 3, 2019. https://www.co.kittitas.wa.us/noxious-weeds/laws.aspx.
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- U.S. Fish and Wildlife Service. 2019. Information for Planning and Consultation (IPaC): Federally Listed, Proposed, Candidate Species, Critical Habitat, and Migratory Birds with the Potential to Occur Within the Project Area (unofficial list). Exported May 15, 2019.
- Washington State Department of Fish and Wildlife. 2019. Priority Habitat and Species List. Olympia, Washington. Updated January 2019. 292 pp.
- _____. 2018. Priority Habitats and Species (PHS) on the Web: PHS Public View: Hide Masked Data. http://apps.wdfw.wa.gov/phsontheweb/. Accessed May 15, 2019.





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Attachment A Kittitas County Noxious Weed List

Common Name	Scientific Name	NTY NOXIOUS WEED LIST Common Name	Scientific Name
CLASS A NOXIOUS WEEDS	Scientific Name	CLASS B NOXIOUS WEEDS (CON	
CLASS A NOXIOUS WEEDS Crupina vulgaris		lesser celandine	Ficaria verna
rdgrass, common	Spartina anglica	loosestrife, garden	Lysimachia vulgaris
cordorass dense-flowered	Spartina densiflora	loosestrife, purple	Lythrum salicaria
cordorass saltmeadow	Spartina patens	loosestrife, wand	Lythrum virgatum
cordorass, smooth	Spartina alterniflora	parrotfeather	Myriophyllum aquaticum
lyer's woad	Isatis tinctoria	perennial pepperweed	Lepidium latifolium
eggleaf spurge	Euphorbia oblongata	poison hemlock	Conium maculatum
alse brome	Brachypodium sylvaticum	policeman's helmet	Impatiens glandulifera
loating primrose-willow	Ludwigia peploides	puncturevine	Tribulus terrestris
lowering rush	Butomus umbellatus	Ravenna grass*	Saccharum ravennae
French broom	Genista monspessulana	rush skeletonweed	Chondrilla juncea
arlic mustard	Alliaria petiolata	saltcedar*	Tamarix ramosissima
iant hogweed	Heracleum mantegazzianum	Scotch broom	Cytisus scoparius
poatsrue	Galega officinalis	shiny geranium	Geranium lucidum
ydrilla	Hydrilla verticillata	spurge laurei	Daphne laureola
ohnsongrass	Sorghum halepense	spurge, leafy spurge, myrtle*	Euphorbia esula
napweed, bighead	Centaurea macrocephala	sulfur cinquefoil	Euphorbia myrsinites
napweed, Vochin udzu	Centaurea nigrescens Pueraria montana var. lobata	tansy ragwort	Potentilia recta Senecio jacobaea
neadow clary	Salvia pratensis	thistle, musk	Carduus nutans
priental clematis	Clematis vitalba	thistle, plumeless	Carduus acanthoides
ourple starthistle	Centaurea calcitrapa	thistie Scotch	Onopordum acanthium
eed sweetgrass	Glyceria maxima	velvetleaf	Abutilon theophrasti
icefield bulrush	Schoenoplectus mucronatus	water primrose	Ludwigia hexapetala
age, clary	Salvia sclarea	white bryony	Bryonia alba
age, Mediterranean	Salvia aethiopis	wild chervil	Anthriscus sylvestris
ilverleaf nightshade	Solanum elaeagnifolium	yellow archangel	Lamiastrum galeobdolon
Spanish broom	Spartium junceum	yellow floatingheart	Nymphoides peltata
purge flax	Thymelaea passerina	yellow nutsedge	Cyperus esculentus
Syrian beancaper	Zygophyllum fabago	yellow starthistle	Centaurea solstitialis
exas blueweed	Helianthus ciliaris	CLASS C NOXIOUS WEEDS	
histle, Italian	Carduus pycnocephalus	absinth wormwood	Artemisia absinthium
histle, milk	Silybum marianum	Austrian fieldcress	Rorippa austriaca
histle, slenderflower	Carduus tenuiflorus	babysbreath	Gypsophila paniculeta
rariable-leaf milfoil	Myriophyllum heterophyllum	black henbane	Hyoscyamus niger
'td four-o'clock	Mirabilis nyctaginea	blackgrass	Alopecurus myosuroides
		buffalobur	Solanum rostratum
CLASS B NOXIOUS WEEDS		cereal rye	Secale cereale
lueweed	Echium vulgare	common barberry	Berberis vulgaris
Brazilian elodea	Egeria densa	common catsear	Hypochaeris radicata
			Senecio vulgaris
	Anchusa arvensis	common groundsel	
ugioss, common	Anchusa officinalis	common St. Johnswort	Hypericum perforatum
ugioss, common nutterfly bush*	Anchusa officinalis Buddleja davidii	common St. Johnswort common tansy	Hypericum perforatum Tanagetum yulgare
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pugloss, common putterfly bush* camelithorn common fennel common fennel common reed (nonnative genotypes) Dalmatian toadflax Eurasian watermilfojj* anwort jorse grass-leaved arrowhead lariny willowherb lawkweed oxtongue lawkweed, orange lawkweeds, all nonnative yellow-flowered lawkweeds, blow-flowered lawkweed, blow-flowered lawkweed, black lanapweed, brown lanapweed, brown lanapweed, diffuse lanapweed, meadow lanapweed, Russian lanapweed, Russian lanapweed, spotted	Anchusa officinalis Buddieja davidii Alhagi maurorum Foeniculum vulgare Phragmites australis Linaria dalmatica Myriophyllum spicatum Cabomba caroliniana Ulex europaeus Sagittaria graminea Epilobium hirsutum Picris hieracioides Hieracium aurantiacum Hieracium, subgenus Pilosella Geranium robertianum Berteroa incana Cynoglossum officinale Amorpha fruticosa Centaurea igcaa Centaurea diffusa Centaurea x moncktonii Acroptilon repens Centaurea stoebe	common St. Johnswort common tansy common teasel field bindweed fragrant waterlily hairy whitetop hoary cress jointed goatgrass lawnweed longspine sandbur medusahead old man's beard oxeye daisy perennial sowthistle scentless mayweed smoothseed alfalfa dodder spikeweed spiny cocklebur Swainsonpea thistle, bull thistie, Canada venternata* white cockle wild carrot yellowflag iris*	Hypericum perforatum Tanacetum vulgare Dipsacus fullonum Convolvulus arvensis Nymphaea odorata Carderia pubescens Carderia pubescens Carderia draba Aegilops cylindrica Soliva sessilis Cenchrus longispinus Taeniatherum caput-medusae Clematis vitalba Leucanthemum vulgare Sonchus arvensis spp. arvensis Matrigaria perforata Cuscuta approximata Centromedia pungens Xanthium spingsum Sphaerophysa salsula Cirsium vulgare Cirsium arvense Ventenata dubia Silene latifolia ssp. alba Daucus carota Ins pseudaoprus
amelthorn common fennel common reed (nonnative genotypes) common fennel common reed (nonnative genotypes) co	Anchusa officinalis Buddleja davidii Alhagi maurorum Foeniculum vulgare Phragmites australis Linaria dalmatica Myriophyllum spicatum Cabomba caroliniana Ulex europaeus Sagittaria graminea Epilobium hirsutum Picris hieracioides Hieracium aurantiacum Hieracium, subgenus Hieracium Hieracium, subgenus Pilosella Geranium robertianum Berteroa incana Cynoglossum officinale Amorpha fruticosa Centaurea nigra Centaurea diffusa Centaurea x moncktonii Acroptilon repens Centaurea stoebe Polygonum bohemicum	common St. Johnswort common tansy common teasel field bindweed fragrant waterlily hairy whitetop hoary cress jointed goatgrass lawnweed longspine sandbur medusahead old man's beard oxeye daisy perennial sowthistle scentless mayweed smoothseed alfalfa dodder spikeweed spiny cocklebur Swainsonpea thistle, buil thistle, Canada ventenata* white cockle wild carrot yellowflag iris* yellow toadflax	Hypericum perforatum Tanacetum vulgare Dipsacus fullonum Convolulus arvensis Nymphaea odorata Carderia pubescens Carderia pubescens Carderia draba Aegilops cylindrica Soliva sessilis Cenchrus longispinus Taeniatherum caput-medusae Clematis vitalba Leucanthemum vulgare Sonchus arvensis spp. arvensis Matricaria perforata Cuscuta approximata Centromadia pungens Xanthium spinosum Sphaerophysa salsula Cirstum vulgare Cirstum arvense Ventenata dubia Silene latifolia ssp. alba Daucus carota
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pugloss, annual pugloss, common putterfly bush* camelithorn common fennel common reed (nonnative genotypes) pairmatian toadflax curasian watermilifoli* camelitorise prass-leaved arrowhead pairy willowherb pawkweed oxtongue pawkweed, orange pawkweed, all nonnative yellow-flowered pawkweeds: all nonnative yellow-flowered pawkweeds all nonnative yellow-flowered pawkweeds all nonnative yellow-flowered pawkweed, prassum productorise production or production of the production of th	Anchusa officinalis Buddleja davidii Alhagi maurorum Foeniculum vulgare Phragmites australis Linaria dalmatica Myriophyllum spicatum Cabomba caroliniana Ulex europaeus Sagittaria graminea Epilobium hirsutum Picris hieracioides Hieracium aurantiacum Hieracium, subgenus Hieracium Hieracium, subgenus Pilosella Geranium robertianum Berteroa incana Cynoglossum officinale Amorpha fruticosa Centaurea nigra Centaurea diffusa Centaurea x moncktonii Acroptilon repens Centaurea stoebe Polygonum bohemicum	common St. Johnswort common tansy common teasel field bindweed fragrant waterlily hairy whitetop hoary cress jointed goatgrass lawnweed longspine sandbur medusahead old man's beard oxeye daisy perennial sowthistle scentless mayweed smoothseed alfalfa dodder spikeweed spiny cocklebur Swainsonpea thistle, buil thistle, Canada ventenata* white cockle wild carrot yellowflag iris* yellow toadflax	Hypericum perforatum Tanacetum vulgare Dipsacus fullonum Convolvulus arvensis Nymphaea odorata Carderia pubescens Carderia pubescens Carderia draba Aegilops cylindrica Soliva sessilis Cenchrus longispinus Taeniatherum caput-medusae Clematis vitalba Leucanthemum vulgare Sonchus arvensis spp. arvensis Matrigaria perforata Cuscuta approximata Centromedia pungens Xanthium spingsum Sphaerophysa salsula Cirsium vulgare Cirsium arvense Ventenata dubia Silene latifolia ssp. alba Daucus carota Ins pseudaoprus

Highlight indicates known presence in Kittitas County

* Control required in designated areas only

Attachment B Photographic Documentation

Photo Log (Project# 1009951.0002.03)

Photographed by: M Talaia-Murray (MT)



Photo 1: Overview of Herbaceous Wetland habitat type along southeastern corner of Site.

Direction: N Date: 6/3/2019 Time: 11:18 AM Taken by: MT

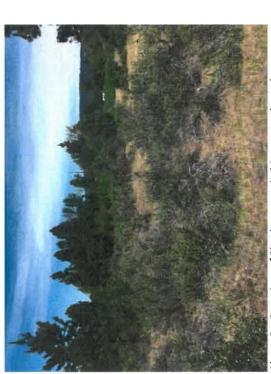


Photo 3: Overview of Shrub-steppe habitat type along the northern edge of the Site. Ponderosa pines also growing here.

Direction: NE Date: 6/3/2019 Time: 1:05 PM Taken by: MT



Photo 2: Overview of Shrub-steppe habitat type along the northern edge of the Site. Ponderosa pines also growing here.

Direction: NE Date: 6/3/2019 Time: 1:05 PM Taken by: MT



Photo 4: Overview of Eastside Riparian (Wetlands) and Lakes,
Rivers, Pond and Reservoirs habitat types in northwestern area of
Direction: W Date: 6/3/2019 Time: 1:18 PM Taken by: MT

Westside Solar



Photo 5: Overview of Herbaceous Wetland habitat type along western edge of Site.

Direction: W Date: 6/3/2019 Time: 1:51 PM Taken by: MT



Photo 7: Spotted knapweed community in open meadow in southern area of the Site.

Direction: Down Date: 6/3/2019 Time: 10:10 AM Taken by: MT

Photo Log (Project# 1009951.0002.03)

Photographed by: M Talaia-Murray (MT)



Photo 6: Overview of Agriculture, Pasture, and Mixed Environs (Unimproved Pasture) habitat type in the upland area in the Direction: N Date: 6/3/2019 Time: 2:21 PM Taken by: MT



Photo 8: Canada thistle in wet meadow, in partially wooded southeastern edge of the Site.

Direction: Down Date: 6/3/2019 Time: 10:27 AM Taken by: MT

Westside Solar

Photo 9: Oxeye daisy in wet meadow in southeastern area of Site.

Date: 6/3/2019 Time: 11:43 AM Taken by: MT

Direction: Down



Photo 11: Spotted and russian knapweed community in southeastern area of Site.

Time: 11:53 AM Taken by: MT Date: 6/3/2019 Direction: SE

Photo Log (Project# 1009951.0002.03)

Photographed by: M Talaia-Murray (MT)

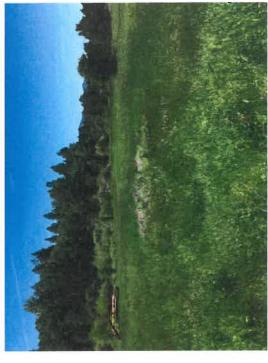


Photo 10: Spotted and russian knapweed community in southeastern area of Site.

Date: 6/3/2019 Time: 11:53 AM Taken by: MT Direction: SW



Photo 12: Sulphur cinquefoil.

Time: 12:05 PM Taken by: MT Date: 6/3/2019 Direction: NE

Westside Solar

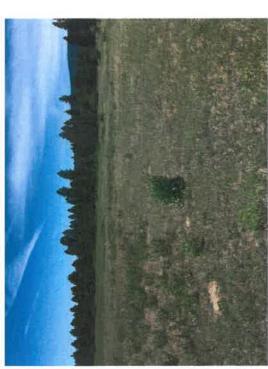


Photo 13: Sulphur cinquefoil, spotted knapweed, common wormwood, and Canada thistle community along eastern edge of Direction: N Date: 6/3/2019 Time: 12:27 PM Taken by: MT



Photo 15: Spotted knapweed, oxeye daisy along eastern edge of

Date: 6/3/2019 Time: 12:42 PM Taken by: MT

Direction: NE

Photo Log (Project# 1009951.0002.03)

Photographed by: M Talaia-Murray (MT)



Photo 14: Sulphur cinquefoil, spotted knapweed, common wormwood, and Canada thistle community along eastern edge of Direction: SE Date: 6/3/2019 Time: 12:28 PM Taken by: MT

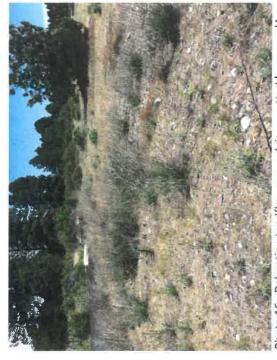


Photo 16: Dalmatian toadflax, oxeye daisy, spotted knapweed in northwestern area of Site.

Direction: NE Date: 6/3/2019 Time: 1:22 PM Taken by: MT

Photographed by: M Talaia-Murray (MT)

Photo Log (Project# 1009951.0002.03)



Photo 17: Spotted knapweed, oxeye daisy in western area of Site.

Taken by: MT	Time: 1:44 PM	Date: 6/3/2019	tion: NE
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Attachment C E & E Field Logbook

y Westside Solar	Norman Weed / Hubitut Survey
June 3, 2019	
[1227] - Cirsum aneny, 10ft2, <	< 5%.
:38- NW9. Spotted knapweed two	
1947 - HB3 Dindrosa pine stand.	
:305- HB4 Shrub-scrib. Artemen	sia tridentada Somo poa
bulbosa. Few parderson pine Die	r scat
:310- NWD. Bindweed. Convolved	lus governors. 10 f42, 590 cover.
Also, knowweed 20 ft? <5%	
1315 - 4B5. Bond w wetland for	ye oxeye days, that Apha labilia,
sedges lambs ear	to the second second
17.20 - NWII. Lipana dalmetra, 25	59. ft, 5% cover. Oxleye dainy, <5%.
Spatied knapweed, 25% donsity	. does scot
1340 - NW12. Spotted knapwed	
Oxeye darry, 45%. Neshry	gil dits notice
	aut fortail, triblum.sp, horsetail,
cat tail rose small pundosa supling	1. Noxiaus oreize desy 45010
redwing blackbird	
	5050 ft2 5%, luana delmation, 1% carer
Knapmed, 30%. Upland grass	meadad
	ea. 100 ft 2, 50% knapweed, d.090.
Oxeye daisy, 5%. Potentilla, 5	5%. Canado Hustl, 2%
100 - NWIS brapweek , 100 ft2,	65 90. Inera dalmanta, 190
co color	- 11 1 1/
1420 HB7. Upland grass. Canada	Thiste rose, yellow salk of
knapmed, populla	
1927 - Complete Survey.	
ens y.	
.1/	N a
M	10-3-19
	<i>Q</i>
Y a me	
7	er generalizate, trapi incep.

Attachment D

U.S. Fish and Wildlife Service Information for Planning and Consulting (IPaC) Project Area Export

IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

Location

Kittitas County, Washington



Local office

Washington Fish And Wildlife Office

(360) 753-9440

(360) 753-9405

510 Desmond Drive Se, Suite 102 Lacey, WA 98503-1263

http://www.fws.gov/wafwo/

Endangered species

This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population, even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act requires Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can only be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

- 1. Draw the project location and click CONTINUE.
- 2. Click DEFINE PROJECT.
- 3. Log in (if directed to do so).
- 4. Provide a name and description for your project.
- 5. Click REQUEST SPECIES LIST.

Listed species and their critical habitats are managed by the <u>Ecological Services Program</u> of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries²).

Species and critical habitats under the sole responsibility of NOAA Fisheries are not shown on this list. Please contact NOAA Fisheries for species under their jurisdiction.

- 1. Species listed under the <u>Endangered Species Act</u> are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the <u>listing status page</u> for more information.
- 2. <u>NOAA Fisheries</u>, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

The following species are potentially affected by activities in this location:

Mammals

NAME STATUS

IPaC: Explore Location

Canada Lynx Lynx canadensis

There is **final** critical habitat for this species. Your location is outside the critical habitat.

https://ecos.fws.gov/ecp/species/3652

Gray Wolf Canis lupus

5/15/2019

U.S.A.: All of AL, AR, CA, CO, CT, DE, FL, GA, IA, IN, IL, KS, KY, LA, MA, MD, ME, MI, MO, MS, NC, ND, NE, NH, NJ, NV, NY, OH, OK, PA, RI, SC, SD, TN, TX, VA, VT, WI, and WV; and portions of AZ, NM, OR, UT, and WA. Mexico.

There is **final** critical habitat for this species. The location of the critical habitat is not available.

https://ecos.fws.gov/ecp/species/4488

Gray Wolf Canis lupus

Western Distinct Population Segment

No critical habitat has been designated for this species.

North American Wolverine Gulo gulo luscus

No critical habitat has been designated for this species.

https://ecos.fws.gov/ecp/species/5123

Threatened

Endangered

. (

Proposed Threatened

Proposed Endangered

Birds

NAME STATUS

Marbled Murrelet Brachyramphus marmoratus

There is **final** critical habitat for this species. Your location is outside the critical habitat.

https://ecos.fws.gov/ecp/species/4467

Northern Spotted Owl Strix occidentalis caurina

There is final critical habitat for this species. Your location is outside the critical habitat.

https://ecos.fws.gov/ecp/species/1123

Yellow-billed Cuckoo Coccyzus americanus

There is **proposed** critical habitat for this species. Your location is outside the critical habitat.

https://ecos.fws.gov/ecp/species/3911

Threatened

Threatened

Threatened

Fishes

NAME STATUS

Bull Trout Salvelinus confluentus

There is **final** critical habitat for this species. Your location is outside the critical habitat.

https://ecos.fws.gov/ecp/species/8212

Threatened

Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

THERE ARE NO CRITICAL HABITATS AT THIS LOCATION.

Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act¹ and the Bald and Golden Eagle Protection Act².

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described <u>below</u>.

- 1. The Migratory Birds Treaty Act of 1918.
- 2. The Bald and Golden Eagle Protection Act of 1940.

Additional information can be found using the following links:

- Birds of Conservation Concern http://www.fws.gov/birds/management/managed-species/birds-of-conservation-concern.php
- Measures for avoiding and minimizing impacts to birds
 http://www.fws.gov/birds/management/project-assessment-tools-and-guidance/conservation-measures.php
- Nationwide conservation measures for birds
 http://www.fws.gov/migratorybirds/pdf/management/nationwidestandardconservationmeasures.pdf

The birds listed below are birds of particular concern either because they occur on the <u>USFWS Birds of Conservation Concern</u> (BCC) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ below. This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the <u>E-bird data mapping tool</u> (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found <u>below</u>.

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, click on the PROBABILITY OF PRESENCE SUMMARY at the top of your list to see when these birds are most likely to be present and breeding in your project area.

NAME

5/15/2019 IPaC: Explore Location

BREEDING SEASON (IF A

BREEDING SEASON IS INDICATED

FOR A BIRD ON YOUR LIST, THE

BIRD MAY BREED IN YOUR

PROJECT AREA SOMETIME WITHIN

THE TIMEFRAME SPECIFIED,

WHICH IS A VERY LIBERAL

ESTIMATE OF THE DATES INSIDE

WHICH THE BIRD BREEDS

ACROSS ITS ENTIRE RANGE.

"BREEDS ELSEWHERE" INDICATES

THAT THE BIRD DOES NOT LIKELY

BREED IN YOUR PROJECT AREA.)

Bald Eagle Haliaeetus leucocephalus

This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.

https://ecos.fws.gov/ecp/species/1626

Black Swift Cypseloides niger

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

https://ecos.fws.gov/ecp/species/8878

Brewer's Sparrow Spizella breweri

This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA

https://ecos.fws.gov/ecp/species/9291

Golden Eagle Aquila chrysaetos

This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA

https://ecos.fws.gov/ecp/species/1680

Lewis's Woodpecker Melanerpes lewis

This is a Bird of Conservation Concern (BCC) throughout its range in

the continental USA and Alaska.

https://ecos.fws.gov/ecp/species/9408

Olive-sided Flycatcher Contopus cooperi

This is a Bird of Conservation Concern (BCC) throughout its range in

the continental USA and Alaska.

https://ecos.fws.gov/ecp/species/3914

Breeds Dec 1 to Aug 31

Breeds Jun 15 to Sep 10

Breeds May 15 to Aug 10

Breeds Dec 1 to Aug 31

Breeds Apr 20 to Sep 30

Breeds May 20 to Aug 31

Sage Thrasher Oreoscoptes montanus

This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/9433

Breeds Apr 15 to Aug 10

White Headed Woodpecker Picoides albolarvatus

This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/9411

Breeds May 1 to Aug 15

Williamson's Sapsucker Sphyrapicus thyroideus

This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA

Breeds May 1 to Jul 31

https://ecos.fws.gov/ecp/species/8832

Willow Flycatcher Empidonax traillii

This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA

https://ecos.fws.gov/ecp/species/3482

Breeds May 20 to Aug 3

Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read and understand the FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

- 1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
- 2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is 0.25/0.25 = 1; at week 20 it is 0.05/0.25 = 0.2.

3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

Breeding Season ()

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort ()

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

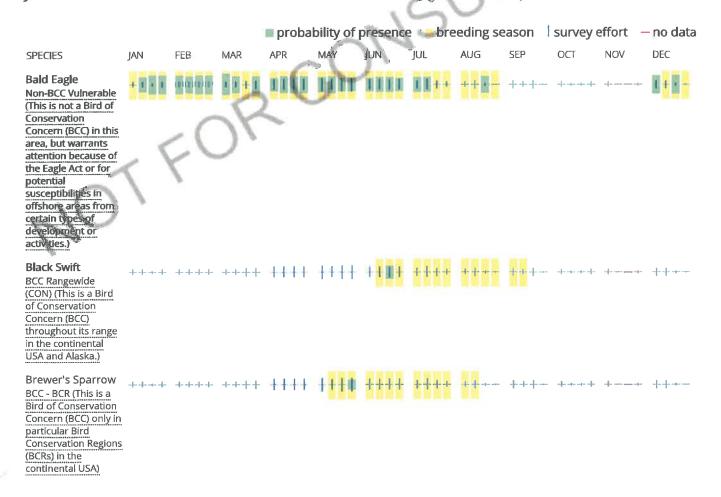
To see a bar's survey effort range, simply hover your mouse cursor over the bar.

No Data (-)

A week is marked as having no data if there were no survey events for that week.

Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.





Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

Nationwide Conservation Measures describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. Additional measures and/or permits may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the migratory birds potentially occurring in my specified location?

The Migratory Bird Resource List is comprised of USFWS <u>Birds of Conservation Concern (BCC)</u> and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the <u>Avian Knowledge Network (AKN)</u>. The AKN data is based on a growing collection of <u>survey</u>, <u>banding</u>, <u>and citizen science datasets</u> and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (<u>Eagle Act</u> requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the <u>AKN Phenology Tool</u>.

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the <u>Avian Knowledge Network (AKN)</u>. This data is derived from a growing collection of <u>survey</u>, <u>banding</u>, <u>and citizen science datasets</u>.

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering, migrating or present year-round in my project area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year round), you may refer to the following resources: The Cornell Lab of Ornithology All About Birds Bird Guide, or (if you are unsuccessful in locating the bird of interest there), the Cornell Lab of Ornithology Neotropical Birds guide. If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

- 1. "BCC Rangewide" birds are <u>Birds of Conservation Concern</u> (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
- 2. "BCC BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
- 3. "Non-BCC Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the <u>Eagle Act</u> requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and mirror avoid and minimize impacts to the birds on this more information on conservation measures y impacts and requirements for eagles, please s

Details about birds that are potentially affect

For additional details about the relative occurred bird species within your project area off the Atlasso offers data and information about other talternately, you may download the bird model Integrative Statistical Modeling and Predictive Outer Continental Shelf project webpage.

Bird tracking data can also provide additional disciplination. Models relying on survey disciplination marine bird tracking data, see the <u>Diving Bird Storing</u>.

What if I have eagles on my list?

If your project has the potential to disturb or kill Eagle Act should such impacts occur.

Proper Interpretation and Use of Your Migrator

The migratory bird list generated is not a list of concern. To learn more about how your list is generated in your project area, please see the FAQ "What do in my specified location". Please be aware this rekm grid cell(s) that overlap your project; not your carefully at the survey effort (indicated by the black red horizontal bar). A high survey effort is the keep presence score can be viewed as more depended of data and, therefore, a lack of certainty about point for identifying what birds of concern have the and if they might be breeding (which means nest confirm presence, and helps guide you in knowing minimize potential impacts from your project actions impacts to migratory birds" at the bottom of your

Facilities

National Wildlife Refuge |

Any activity proposed on lands managed by 'Compatibility Determination' conducted by discuss any questions or concerns.

Nationwide Conservation Measures describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. Additional measures and/or permits may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

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Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the <u>AKN Phenology Tool</u>.

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- 2. "BCC BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
- 3. "Non-BCC Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the <u>Eagle Act</u> requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the Northeast Ocean Data Portal. The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the <u>Diving Bird Study</u> and the <u>nanotag studies</u> or contact <u>Caleb Spiegel</u> or <u>Pam Loring</u>.

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to obtain a permit to avoid violating the Eagle Act should such impacts occur.

Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

Facilities

National Wildlife Refuge lands

Any activity proposed on lands managed by the <u>National Wildlife Refuge</u> system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS AT THIS LOCATION.

Fish hatcheries

THERE ARE NO FISH HATCHERIES AT THIS LOCATION.

Wetlands in the National Wetlands Inventory

Impacts to <u>NWI wetlands</u> and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local <u>U.S. Army Corps of Engineers District</u>.

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

This location overlaps the following wetlands:

FRESHWATER FORESTED/SHRUB WETLAND

PSSA

RIVERINE

R4SBC

A full description for each wetland code can be found at the National Wetlands Inventory website

Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters.

Some deepwater reef communities (coral or tuberficid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

Data precautions

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

NOT FOR CONSULTATIO