1411 East Mission Avenue
PO Box 3727
Spokane, WA 99220-3727

Electronically Filed

December 30, 2019

Ms. Kimberly D. Bose, Secretary
Federal Energy Regulatory Commission
888 First St. N.E.
Washington, DC 20426

Subject: Spokane River Project License, FERC Project No. 2545, Article 414, Submittal of 2019 Annual Bald Eagle Monitoring Report

Dear Secretary Bose:

In accordance with the Federal Energy Regulatory Commission's (FERC) June 18, 2009 Spokane River Hydroelectric Project (No. 2545) License, Article 414, Avista Corporation (Avista) developed and submitted a Bald Eagle Management Plan (Plan) for FERC review and approval. FERC approved the Plan in its May 11, 2011 Order.

The Plan requires Avista to submit a Bald Eagle Monitoring Report, summarizing the activities that it implements to monitor bald eagles associated with the Spokane River Project, to FERC, the U.S. Fish and Wildlife Service (USFWS), the Idaho Department of Fish and Game (IDFG), and the Washington Department of Fish and Wildlife (WDFW) by December 31 on an annual basis.

With this, Avista is submitting the enclosed 2019 Annual Bald Eagle Monitoring Report for your records, which discusses annual occupancy and productivity, and provides an overview of the surveys for new nests that were conducted during 2019.

Of additional importance, and as referenced in the 2016, 2017 and 2018 annual reports, Avista has been working with the USFWS, IDFG, and the WDFW to revise the Plan to better represent bald eagle monitoring needs associated with the Spokane River Project. The basis for the revisions are due to the number of nesting territories and nests being stable since 2015, an indication that the overall monitoring area appears to be at or close to carrying capacity. Additionally, only four of the 35 bald eagle nests are on Avista's property, where it or FERC have management authority, and the birds are no longer listed as Threatened or Endangered by the USFWS, threatened by WDFW, or as a Species of Greatest Conservation Need by IDFG.

In addition to working with the above agencies during annual meetings to address how to best revise the Plan, Avista submitted a Revised Bald Eagle Management Plan to them for a 30-

day consultation period on December 27, 2018. Given significant staff turnover within the agencies, as well as comments received during 2019, Avista worked with the agencies to incorporate comments, as appropriate. The Revised Bald Eagle Management Plan (Revised Plan), dated December 30, 2019, was distributed to the agencies for an additional 30-day comment period. Avista anticipates filing the Revised Bald Eagle Management Plan, including agency consultation, to FERC for approval in the spring of 2020.

If you have any questions regarding the 2019 Annual Bald Eagle Monitoring Report, please feel free to call me at (509) 495-4643.

Sincerely,

Meghan Lunney
Spokane River License Manager

Enclosure

cc:

Kiira Siitari, IDFG
Erin Britton-Kuttel, USFWS
Leslie King, WDFW
Jeff Lawlor, WDFW
Merritt Horsman, IDFG

1411 East Mission Avenue
PO Box 3727
Spokane, WA 99220-3727

December 30, 2019

Leslie King
Washington Department of Fish and Wildlife
Region 1 Habitat Biologist
2315 North Discovery Place
Spokane Valley, WA 99216-1566

Subject: **Spokane River Project License, FERC Project No. 2545, Article 414, Submittal of the 2019 Annual Bald Eagle Monitoring Report and Request for Comments on the Revised Bald Eagle Management Plan**

Dear Ms. King:

In accordance with the Federal Energy Regulatory Commission's (FERC) June 18, 2009 Spokane River Hydroelectric Project (No. 2545) License, Article 414, Avista Corporation (Avista) developed a Bald Eagle Management Plan (Plan) after consulting with the U.S. Fish and Wildlife Service (USFWS), Idaho Department of Fish and Game (IDFG), and the Washington Department of Fish and Wildlife (WDFW). Following agency consultation, the Plan was filed with the FERC, which approved the Plan in its May 11, 2011 Order.

The Plan requires Avista to submit an annual Bald Eagle Monitoring Report that summarizes the bald eagle monitoring activities associated with the Spokane River Project by December 31. The enclosed 2019 Annual Bald Eagle Monitoring Report is being provided for your records. It discusses annual occupancy and productivity and provides an overview of the surveys for new nests that were conducted in 2019.

As you are aware, Avista has also been working with the USFWS, IDFG, and the WDFW over the last couple of years to revise the Plan to better represent bald eagle monitoring needs associated with the Spokane River Project. The basis for the revisions are due to the number of nesting territories and nests being stable since 2015, an indication that the overall monitoring area appears to be at or close to carrying capacity. Additionally, only four of the 35 bald eagle nests are on Avista's property, where it or FERC have management authority, and the birds are no longer listed as Threatened or Endangered by the USFWS, threatened by WDFW, or as a Species of Greatest Conservation Need by IDFG.

The enclosed Revised Bald Eagle Management Plan (Revised Plan), dated December 30, 2019, incorporates our discussions through November 2019. We would greatly appreciate your review and comments, if you have any, on the Revised Bald Eagle Management Plan by **January 30, 2020.** This will allow us to incorporate your comments, as appropriate, and file the revised Plan with FERC by early spring 2020.

If you have any questions regarding the 2019 Annual Bald Eagle Monitoring Report or the Revised Bald Eagle Management Plan, please feel free to call me at (509) 495-8340.

Sincerely,

Robert Stephens
Restoration Biologist

Enclosures (2)

cc: Katie Powell, USFWS
Erin Britton-Kuttel, USFWS
Merritt Horsmon, IDFG
Jeff Lawlor, WDFW

1411 East Mission Avenue
PO Box 3727
Spokane, WA 99220-3727

December 30, 2019

Katie Powell
U.S. Fish and Wildlife Service
Northern Idaho Field Office, Manager, Conservation Planning
11103 East Montgomery Drive
Spokane Valley, WA 99206

Subject: Spokane River Project License, FERC Project No. 2545, Article 414, Submittal of the 2019 Annual Bald Eagle Monitoring Report and Request for Comments on the Bald Eagle Management Plan (Revised 2019)

Dear Ms. Powell:

In accordance with the Federal Energy Regulatory Commission's (FERC) June 18, 2009 Spokane River Hydroelectric Project (No. 2545) License, Article 414, Avista Corporation (Avista) developed a Bald Eagle Management Plan (Plan) after consulting with the U.S. Fish and Wildlife Service (USFWS), Idaho Department of Fish and Game (IDFG), and the Washington Department of Fish and Wildlife (WDFW). Following agency consultation, the Plan was filed with the FERC, which approved the Plan in its May 11, 2011 Order.

The Plan requires Avista to submit an annual Bald Eagle Monitoring Report that summarizes the bald eagle monitoring activities associated with the Spokane River Project by December 31. The enclosed 2019 Annual Bald Eagle Monitoring Report is being provided for your records. It discusses annual occupancy and productivity monitoring conducted in 2019.

As you are aware, Avista has also been working with the USFWS, IDFG, and the WDFW over the last couple of years to revise the Plan to better represent bald eagle monitoring needs associated with the Spokane River Project. The basis for the revisions are due to the number of nesting territories and nests being stable since 2015, an indication that the overall monitoring area appears to be at or close to carrying capacity. Additionally, only four of the 35 bald eagle nests are on Avista's property, where it or FERC have management authority, and the birds are no longer listed as Threatened or Endangered by the USFWS, threatened by WDFW, or as a Species of Greatest Conservation Need by IDFG.

The enclosed Revised Bald Eagle Management Plan (Revised Plan), dated December 30, 2019, incorporates our discussions through November 2019. We would greatly appreciate your expedited review and comments, if you have any, by **January 30, 2020**. This will allow us to incorporate your comments, as appropriate, and file the revised Plan with FERC by early spring 2020.

If you have any questions regarding the 2019 Annual Bald Eagle Monitoring Report or the Revised Bald Eagle Management Plan, please feel free to call me at (509) 495-8340.

Sincerely,

Robert Stephens
Restoration Biologist

Enclosures (2)

cc: Erin Britton-Kuttel, USFWS
Merritt Horsmon, IDFG
Leslie King, WDFW
Jeff Lawlor, WDFW

1411 East Mission Avenue
PO Box 3727
Spokane, WA 99220-3727

December 30, 2019

Merritt Horsman
Idaho Department of Fish and Game
2885 W. Kathleen Ave
Coeur d'Alene, ID 83814

Subject: **Spokane River Project License, FERC Project No. 2545, Article 414, Submittal of the 2019 Annual Bald Eagle Monitoring Report and Request for Comments on the Revised Bald Eagle Management Plan**

Dear Mr. Horsman:

In accordance with the Federal Energy Regulatory Commission's (FERC) June 18, 2009 Spokane River Hydroelectric Project (No. 2545) License, Article 414, Avista Corporation (Avista) developed a Bald Eagle Management Plan (Plan) after consulting with the U.S. Fish and Wildlife Service (USFWS), Idaho Department of Fish and Game (IDFG), and the Washington Department of Fish and Wildlife (WDFW). Following agency consultation, the Plan was filed with the FERC, which approved the Plan in its May 11, 2011 Order.

The Plan requires Avista to submit an annual Bald Eagle Monitoring Report that summarizes the bald eagle monitoring activities associated with the Spokane River Project by December 31. The enclosed 2019 Annual Bald Eagle Monitoring Report is being provided for your records. It discusses annual occupancy and productivity and provides an overview of the surveys for new nests that were conducted in 2019.

As you are aware, Avista has also been working with the USFWS, IDFG, and the WDFW over the last couple of years to revise the Plan to better represent bald eagle monitoring needs associated with the Spokane River Project. The basis for the revisions are due to the number of nesting territories and nests being stable since 2015, an indication that the overall monitoring area appears to be at or close to carrying capacity. Additionally, only four of the 35 bald eagle nests are on Avista's property, where it or FERC have management authority, and the birds are no longer listed as Threatened or Endangered by the USFWS, threatened by WDFW, or as a Species of Greatest Conservation Need by IDFG.

The enclosed Revised Bald Eagle Management Plan (Revised Plan), dated December 30, 2019, incorporates agency discussions through November 2019. We would greatly appreciate your review and comments, if you have any, on the Revised Bald Eagle Management Plan by **January 30, 2020.** This will allow us to incorporate your comments, as appropriate, and file the revised Plan with FERC by early spring of 2020.

If you have any questions regarding the 2019 Annual Bald Eagle Monitoring Report or the Revised Bald Eagle Management Plan, please feel free to call me at (509) 495-8340.

Sincerely,

Robert Stephens
Restoration Biologist

Enclosures (2)

cc: Katie Powell, USFWS
Erin Britton-Kuttel, USFWS
Leslie King, WDFW
Jeff Lawlor, WDFW

AVISTA CORPORATION

2019

ANNUAL BALD EAGLE MONITORING REPORT

ARTICLE 414

SPOKANE RIVER HYDROELECTRIC PROJECT
FERC PROJECT NO. 2545

Prepared by
Licia A. Stragis
Timberland Management Company

For
Avista Corporation
Spokane, Washington

December 30, 2019

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APPENDICES

1.0 INTRODUCTION

On June 18, 2009, the Federal Energy Regulatory Commission (FERC) issued a License for Avista Corporation's (Avista) Spokane River Project, FERC Project No. 2545 (Project), for a 50-year license term. The Project consists of five hydroelectric developments located on the Spokane River in northern Idaho (in Kootenai and Benewah counties) and eastern Washington (in Spokane, Stevens, and Lincoln counties). The Project boundary generally follows the normal full pool elevation of each hydroelectric development's impoundment, which from upstream to downstream, include:

- Post Falls (River Mile [RM] 102)
- Upper Falls (RM 74.2)
- Monroe Street (RM 74)
- Nine Mile (RM 58)
- Long Lake (RM 34)

Article 414 of the License required Avista to develop a Bald Eagle Management Plan (Plan), which was approved by FERC on May 11, 2011. The Plan included: (i) bald eagle (*Haliaeetus leucocephalus*) nests associated with waters impounded by the Project; (ii) a framework for annual territory occupancy and productivity monitoring (Monitoring); (iii) annual surveys to identify new nests (Surveys); (iv) investigations to identify bald eagle nesting territories including primary use areas, home ranges, and key use sites (Investigations); and (v) reporting requirements (Annual Reports). This Annual Bald Eagle Monitoring Report (Report) summarizes the results of implementing the Plan in 2019.

The Plan defines the Monitoring Area as the area that encompasses bald eagle nest sites associated with waters impounded by the Project. In general, this area extends one-half mile beyond the Project boundaries. Annual Monitoring, Surveys, and Investigations are completed within this area. Within the Monitoring Area the Plan further defines the Planning Area, which is the geographic area associated with nests that occur on Avista-owned lands and with the requirement to prepare site-specific management plans for bald eagle nests. The Planning Area includes Avista-owned lands where an active or alternate nest, associated with waters impounded by the Project is present, and specific additional nesting territories, where investigations indicate, that (1) Project operations may have negative effects on bald eagle productivity or habitats, and (2) opportunities for protection are available.

Avista met with the U.S. Fish and Wildlife Service (USFWS), Idaho Department of Fish and Game (IDFG), and the Washington Department of Fish and Wildlife (WDFW) on March 27, 2019 to discuss the annual implementation of the Plan. Licia Stragis, Timberland Management Company Senior Biologist, assisted Avista in implementing the Plan and prepared the Report. Original and electronic copies of all field forms, photographs, geographic information system (GIS) databases, and reports are filed at Avista.

2.0 TERRITORY OCCUPANCY AND PRODUCTIVITY MONITORING

2.1 Methods

Location of Territories Monitored. *Figures 1 and 2* show the locations of the nesting territories monitored. A nest territory is an area occupied by a pair of breeding bald eagles that typically defend against intrusion by other eagles. A territory may include one or more alternate nests (nests built or maintained by the eagles but not used for nesting in a given year) (UFWS 2007). The territory is considered occupied if it contains an active nest.

Dates of Monitoring. Monitoring occurred between February 1 and July 31, following the methods described below and detailed in the Plan. Supplemental efforts included additional observation dates and extending the observation period to midday for watercraft and some land-based monitoring. According to the Plan, each known nest is to be observed a minimum of three times during the nesting season to make a nesting determination and assess productivity. The first observation was an initial determination of nesting activity that occurred between February 1 and April 15; the second observation, an update of nesting status, occurred between April 15 and June 15 and the third observation, a determination of productivity, occurred between June 15 and July 31.

Data Collection. Observations were generally made from first light to midday and required up to one and one half hours to determine nest activity and productivity. High-resolution optics were used to facilitate observations. Observations were conducted from watercraft, land vehicle, and on foot. Land-based observations took place from a vehicle whenever possible to avoid disturbance to eagles. Nests approached on foot, took place with the observer remaining at least 330 feet from the nest and/or hidden from view, and observers retreated if eagles displayed agitated behavior. During each visit, data pertinent to the determination of nest occupancy and productivity were recorded. This included:

- Nest condition
- Nest repair or construction
- Presence and behavior of adults
- Adult incubation or brooding posture
- Number of eggs (where visible)
- Number and age of young using a standardized aging key based on plumage, size, and posture (Carpenter 1990)

Observers also noted any habitat alterations or activities that have occurred near the nest site that may affect eagle productivity.

Nest Determinations. A nesting determination is the activity status of the nest and subsequently, it is used to determine if a territory is occupied. The five potential nest determinations are (1) Active Successful, (2) Active, Not Successful, (3) Active, Success Unknown, (4) Not Active, and (5) Status Unknown. Based on the results of observations and professional judgment, a determination was made for each monitored territory.

1. **Active:** Two adults present in a territory containing a nest during the nesting season, or one adult observed incubating with young, or near a known nest. "Active" is a transitional designation. A nest that is deemed "Active" at the beginning of the nesting season received a determination of "Successful", "Active, Not Successful", or "Active, Success Unknown" at the completion of monitoring.

> **Active Successful**: One or more young fledged from the nest. When the "Successful" determination is used, the Report includes the number of eagles fledged from the nest. According to the Plan, productivity results assume the young noted in the nest during the last observation have successfully fledged. However, the pre-fledging period is considered a very sensitive period. Nestlings at this stage are developing flight abilities, may flush from the nest prematurely, and perish due to disruption (USFWS 2007). Therefore, actual numbers of fledglings and percentages may be the same or lower.
>
> **Active, Not Successful:** An occupied territory where no young were produced. When the "Active, Not Successful" determination is used, observers tried to determine the cause of reproductive failure where possible, and note the nature, extent, and location of activities or habitat alterations in the territory. During the 2015 annual meeting, Avista and the agencies agreed this determination includes previous "nest abandoned" designation where eagles had deserted or stopped attending the nests.
>
> **Active, Success Unknown:** Occupied territory not adequately monitored to determine success. The use of this determination requires an explanation as to why the territory was not adequately monitored to determine success. The annual report will include recommendations to rectify inadequacies in subsequent monitoring.

2. **Not Active:** No nesting activity and no adults observed near a nest in a nesting territory. When the "Not Active" determination is used, observers recorded any modifications or disturbances to habitat that have occurred near the nest site and the distance to those disturbances. The nature, extent, and proximity of habitat modifications/disturbances should be included in the annual report. These nests are not included in the analysis of Monitoring Area productivity, nest productivity, and nest failure rates.

3. **Status Unknown:** Territory not checked or incompletely checked to determine occupancy. The use of the "Status Unknown" determination requires an explanation of why the territory was not checked or why observations were not adequate to determine occupancy. The annual report includes recommendations to allow for adequate observations during subsequent monitoring.

All territory occupancy, nesting activity status, and productivity data was recorded on standardized data forms. Copies of these forms are included in *Appendix A.*

2.2 Results

2019 Territory Occupancy, Nesting Activity Status, and Productivity Determination

Thirty-five territories were monitored in 2019. The 2012-2019 monitoring results are shown in *Table 1* and summarized below.

- Territory Occupancy: 86%. Of the 35 territories that were monitored, 30 contained active nests, four did not have active nests, and one had a status of unknown.
- Active nests: All of the 30 active nests had known productivity;
  - Active, Successful: 24 nests.
  - Active, Not Successful: 6 nests.
  - Active, Success Unknown: 0 nests.
- Monitoring Area Productivity: Thirty-five young fledged from the 30 active nests with known productivity, (n=30). The average number of fledglings per active nest was 1.17.
- Successful Nest Productivity: 80%. Of the 30 active nests with known productivity, 24 were successful. Thirty-five young were fledged from the twenty-four successful nests. (n=24). The average number of fledglings per successful nest was 1.46.

Annual productivity of nesting territories in the Monitoring Area is summarized in *Table 2*.

Table 1. Annual Bald Eagle Monitoring Results

Territory Name	Nest Number	Nest in Planning Area	Potential Disturbance Factors	2019 Nest Determination	# of Fledglings							
					2019	2018	2017	2016	2015	2014	2013	2012
IDAHO												
Ahrs Creek	08I10301	No	Jet boat race, ranch	Active, Successful	1	2	1	1	1	NA	NA	NA
Chippy Point	08I10501	No	Residential	Active, Successful	1	1	NA					
Cougar Bay	07I03502	No	Residential, osprey nests	Active, Successful	1	2	0	2	0	2	UNK	0
Eddyville	07I07701	No	Residential	Active, Successful	1	2	2	2	2	2	2	2
Falls Creek	07I03703	No	Jet boat race	Not Active	0	UNK	1	UNK	1	1	0	0
Fernan W	07I03403	No	Osprey	New, Active, Successful	1	1	2	1	1	1	1	NA
Fernan E	07I03402	No	Recreation	Active, Not Successful	0	0	1^{+}	-				
Hepton Lake W	08I10101	No	Residential, Hwy 3	Active, Successful	2	0	1	1	2	2	2	NA
Hepton Lake E	08I10102	No	Residential, Hwy 3	Active, Successful	1^{+}	0	-					
Heyburn Park S	08I05702	No	Park, roads, Trail of CDA	Active, Successful	2	1	UNK	1	2	1	2	0
Heyburn Park N	08I05701	No	Park, roads, Trail of CDA	Active, Successful	1	1	2	2^{+}	-	-	-	-
Killarney Lake	07I01702	No	None	Active, Successful	3	1	1	2	0	1	1	2
Mica Bay	07I05401	No	Residential	Active, Successful	1	2	2	1	2	2	1	2
Post Falls Dam	07I08001	Yes	Residential, dam, osprey	Status Unknown	UNK	UNK	0	1	2	1	2	1
Rainy Hill	07I07402	No	None	Active, Successful	2	1	0	0	1	2	UNK	UNK
Rose Lake	07I01902	No	Residential	Active, Successful	1	1	1	0	1	0	1	0

Territory Name	Nest Number	Nest in Planning Area	Potential Disturbance Factors	2019 Nest Determination	# of Fledglings							
					2019	2018	2017	2016	2015	2014	2013	2012
St, Joe/Benewah	08I10601	No	None	Not Active	0	0	NA					
St. Maries	08I04301	No	None	Active, Successful	1	1	1	UNK	UNK	0	2	1
Turner Bay	07I06604	No	Residence, near Hwy.	Active, Successful	2	2	2	2	0	0	1	2
Turtle Lake	08I02403	No	Jet boat race	Active, Not Successful	0	1	1	1	1	2	2	0
Upper Spokane River	07I10202	No	Residences across river	Active, Not Successful	0	1	1	0	UNK	0	UNK	NA
Windy Bay	08I00103	No	None	Not Active	0	2	2	2	1	2	UNK	1
WASHINGTON												
Charles Maas	06W30505	No	WA Park and residential	Active, Not Successful	0	UNK	2	2	1	1	1	1
Deep Creek	06W10901	Yes	Trails	Active, Successful	2	0	0	UNK	2	NA	NA	NA
Four Mound	06W10502	No	Residential	Active, Successful	2	2	1	1	2	NA	NA	NA
Little Sandy	06W11001	No	Trails	New,Active, Successful	1	NA						
Long Lake South	06W22010	Yes	Residential	Active, Successful	2	2	1	0	0	0	0	2
Lower Spokane River	06W10101	No	Osprey, Hwy 291,residential	Active, Not Successful	0	1	0	2	1	1	0	NA
North Shore	06W10403	Yes	Dock	Active, Successful	1	0	0	1	1	2	NA	NA
Powerball	06W10701	Yes	Osprey, other eagles	Active, Successful	1	1	2	2	2	NA	NA	NA
Riverside Launch	06W10601	No	Osprey, recreation	Active, Successful	2	0	2	2	2	NA	NA	NA
Sportsman	06W10801	No	Residence	Active, Not Successful	0	2	2	1	1	NA	NA	NA
Suncrest	06W10302	No	Residential, trails	Active, Successful	1	1	1	1	1	0	NA	NA

Territory Name	Nest Number	Nest in Planning Area	Potential Disturbance Factors	2019 Nest Determination	# of Fledglings 2019	2018	2017	2016	2015	2014	2013	2012
Whalen	06W29703	Yes	Osprey	Not Active	0	0	UNK	UNK	1	1	2	3
Willow Bay	06W10201	No	Other eagles, osprey, resort, Hwy 291	Active, Successful	2	1	1	2	2	1	NA	NA
Total fledglings					**35 (n=30)**	**32 (n=25)**	**32 (n=26)**	**33 (n=25)**	**33 (n=23)**	**27 (n=22)**	**20 (n= 16)**	**19 (n=17)**
Fledglings/ nest					**1.17 (n=30)**	**1.28 (n=25)**	**1.23 (n=26)**	**1.32 (n=25)**	**1.44 (n=23)**	**1.23 (n=22)**	**1.25 (n=16)**	**1.12 (n=17)**
Fledglings/ successful nest					**1.46 (n=24)**	**1.39 (n=23)**	**1.39 (n=23)**	**1.50 (n=22)**	**1.44 (n=23)**	**1.50 (n=18)**	**1.54 (n=13)**	**1.73 (n=11)**

NA =not applicable, monitoring started in year indicated, no previous year information

UNK =success or status unknown

\+ = territory split, alternate nest with another BAEA pair

\- = alternate nest status

Table 2. Annual Summary of Bald Eagle Productivity in the Monitoring Area

	2019	2018	2017	2016	2015	2014	2013	2012
Number of territories checked	35	34	33	32	32	27	23	19
Number of active territories	30	28	28	29	26	22	21	19
Percent active (occupancy)	86	82	85	91	81	81	91	100
Number of nests with known productivity	30	25	26	25	23	22	16	17
Number of successful nests	24	23	23	22	23	18	13	11
Number of active nest failures	6	2	3	3	0	4	3	6
Number success unknown	0	3	2	4	2	0	5	2
Percent active nest success	80	92	88	88	100	82	81	65
Percent active nest failure	20	8	12	12	0	18	19	35
Number of fledglings	35	32	32	33	33	27	20	19
Fledglings /nest	1.17	1.28	1.23	1.32	1.44	1.23	1.25	1.12
Fledglings/ successful nest	1.46	1.39	1.39	1.50	1.44	1.50	1.54	1.73

The following section discusses the factors affecting occupancy and productivity of the individual nesting territories. They are ordered according to the final nesting determination.

Active, Successful. Twenty-four of 30 active nests were successful, fledging a total of 35 nestlings. The average fledglings per successful nest was 1.46 with one or two fledglings. However, the Killarney Lake nest had three fledglings. The previous record of three fledglings was at the Whalen nest in 2012.

Active, Not Successful. There were six territories where adults were present in the territory and near or at the nest during the nesting season but nesting was not successful: Fernan East, Turtle Lake, Upper Spokane River, Charles Maas, Sportsman, and Lower Spokane River.

The Fernan East nest was determined active on March 6th with two adults perching and repairing the nest. On May 27th both adults were perching in the territory, however the nest was collapsed. On July 8th, one adult eagle was observed perching on the ridge below the collapsed nest site. Therefore, initial adult perching and repairing nest indicated an active nest, but due to subsequent observations of a collapsed nest, the nest was determined to be not successful. There were no observed disturbances or habitat alterations to indicate the cause of failure.

The Turtle Lake nest was determined active with one adult perched on a limb above the nest on May 28th. A nestling was also observed in the nest at the 3b stage. This stage is approximately 3.5 to 5.5 weeks until fledging and is considered a very sensitive period as young are vulnerable to elements and predators (Carpenter 1990, and USFWS 2007). The nest was in fair condition. On June 25 an adult was observed about 50 feet from the nest, but no movement was observed in the nest. The nest was in poor condition. On July 16th no adults were observed near the nest or in the territory. No activity was observed at the nest. Therefore, adult presence near the nest and a nestling indicate an active nest. But due to lack of observed young on subsequent observation dates, the vulnerable age when the nestling was last seen, and the poor condition of the nest, the nest was determined to be not successful. The nest failure occurred between May 28th and June 25th. There were no observed disturbances or habitat alterations to indicate the cause of failure. Potential disturbances include a dirt road within 300 feet, residences within 1,000 feet and a paved highway within 1,000 feet.

The Upper Spokane River nest was determined active by March 31st with two adults present, conducting nest repair, and incubation. During two observation dates in April incubation continued but the bottom of the nest appeared loose. A hatching was observed on May 14th along with two adults present in the territory. However by May 28th, the nest was completely collapsed. The adults were observed upstream of the nest. Through the subsequent observation in June and July only one adult was observed in the territory. Therefore, adult presence at the nest and a nestling indicate an active nest. The nest collapsed occurred between May 14th and May 28th. The nest was determined to be not successful. There were no observed disturbances or habitat alterations to indicate the cause of failure aside from the nest collapse. Potential disturbances included residences across the river from the nest but these were well away from the nest location which was on the opposite hillslope ridge.

The Charles Maas nest was determined active by May 31st, when fresh nest material was observed, implying previous adult presence at the nest. No adults were observed on that date. There was no sign of nest use or adult presence observed on subsequent dates. The nest was in good condition. The alternate east nest was not found. There were no observed disturbances or habitat alterations.

The Sportsman nest was determined active by May 31st, when fresh nest material was observed, implying previous adult presence at the nest. No adults were observed on that date. There was no sign of nest use or adult presence on subsequent dates. The nest was in good condition. This nest has been active and successful since 2015. There were no observed disturbances or habitat alterations.

The Lower Spokane River nest was determined active on March 18th and April 18th with an incubating adult on the nest. By April 20th, June 12, and July 24th, no adult eagles were observed in the territory. No young were observed. The nest remained in good condition. Therefore, adult presence incubating at the nest indicate an active nest. But lack of adult presence or young at subsequent observation indicated the nest was not successful. Potential disturbances include residences across the river from the nest, a paved highway with a bridge 800 feet from the nest, and two osprey nests. Habitat alterations include a transmission line upgrade in the fall of 2018, adjacent to this territory and 0.45 miles east of the nest. No other disturbances or habitat alterations were observed.

Active, Success Unknown. All 30 active nests were determined to be successful or not successful. There were no active, success unknown nests.

Not Active. Four nests in territories were not active: Falls Creek, St. Joe/Benewah, Windy Bay, and Whalen.

The Falls Creek territory was not active. There was no adult eagle presence or nesting activity observed at the 07I03703 nest. The nest was in fair condition. The nest was last active in 2017. The Falls Creek 07I03702 nest was not detected. There were no observed disturbances or habitat alterations.

The St. Joe/Benewah territory was not active. There was no adult eagle presence or nesting activity observed. The nest was in fair condition. The nest was active, not successful in 2018. There were no observed disturbances or habitat alterations.

The Windy Bay territory was not active. There was no adult eagle presence or nesting activity observed. The 08I00103 nest was active and successful in 2018, but the nest was found to be mostly fallen out of the tree in 2019. The two alternate nests have also collapsed. There were no observed disturbances or habitat alterations.

The Whalen Territory was not active. Although an adult was observed on two occasions, it was not observed at any time near the nest location or involved in nesting activities. The nest was in fair to poor condition. There have been no observed successful nesting at this territory since 2015. There may be an alternate nest since eagles have been observed using the territory in previous years. There were no observed disturbances or habitat alterations.

Status Unknown. The status of the Post Falls Dam nest was unknown. The territory was incompletely checked in 2019. There were no monitoring observation dates prior to July 2nd. At that point no nest was detected and was assumed destroyed. An adult eagle was observed perched near the previous nest location on that date and on July 15th. Because of the incomplete survey, the status was determined as unknown. Complete surveys will be conducted in future monitoring efforts.

Historic Territories. Territories not active or not occupied by adult eagles for three successive years are considered historic territories and are not included in monitoring results. However, the location of these nests is retained in the GIS database and the area is included in surveys for new nests. Historic territories include Blessing Slough 2018, Swan Lake in 2017, Harrison West in 2016, Mission Slough in 2015, and Anderson Lake in 2015. There were no historic determinations in 2019.

Other. In 2018 and again in 2019 Bull Run was determined not to be a nesting territory. Adult eagles were observed flying through the area for the past three years, but no nest was located.

2.3 Discussion

The occupancy and productivity percentages in 2019 are similar to the previous 2012-2018 Project monitoring results, and to the previous studies conducted by Idaho Fish and Game (IDFG) from 1979 to 2006 in the Idaho Eagle Management Area 7 of north Idaho and Montana (Sallabanks 2006).

The number of identified and occupied nesting territories has stabilized since 2015. The initial increase of nesting territories from 19 in 2012 to 35 in 2019 was likely due to Plan

implementation, i.e. annual survey for new nests, and nests found during monitoring. It is important to note that nest locations and territories are not permanent. The dynamics that affect eagle presence, nest locations, and territory boundaries include eagle mortalities, nesting efforts of younger eagles, natural and human caused disturbances, and competition for habitat and prey with other eagles and other species.

In 2019 the one new nesting territory documented was the Little Sandy on the Spokane River. The Hepton territory was split into two territories; Hepton East and Hepton West. Both were occupied, active, and fledged young. Bull Run was determined not to be a territory and was removed from monitoring in 2019.

The Monitoring Area also appears to be at or close to carrying capacity to support nesting pairs of bald eagles. Figures 1 and 2 show the locations of the nests and Tables 3 and 4 measure the distances between some of the nests and territories. From this information we have found that eagle nests are nearly predictable within a five mile interval. In which case, it can be concluded that most of the territories in the monitoring area may currently be identified.

It is important to note though, this is not an absolute count of nests. There are locations in the Monitoring Area where nests have not been found. For example, some remote river locations are inaccessible. Some lake locations are exposed to severe weather and winds, which have minimized available tall and mature trees for nest sites protected from the wind. Ospreys, which are numerous in many parts of the Monitoring Area, are the most frequent disturbance to nesting eagles and sufficient numbers may deter nesting success. Other natural disturbances that can impact nesting include competing eagles or other species such as owls, hawks, other birds, and predators. See *Tables 1 and 4.* Most of the territories experience some human caused disturbance and habitat alterations from nearby residences, transportation elements, infrastructure or human recreation as shown in *Tables 1 and 4.* Only a few of the nests are in isolation from these types of ongoing disturbances. There has been no documentation or observations of disturbances to nesting eagles as a result of Project activities.

3.0 SURVEYS TO IDENTIFY NEW NESTS

3.1 Methods

The methods described below follow those detailed in the 2010 Plan, with a minor adjustment that extended the survey period through the monitoring period.

Avista coordinates with the USFWS, IDFG, WDFW and other entities to identify potential new bald eagle territories or nests. Supplemental efforts included communications with local and nearby residents of the Monitoring Area during the course of ongoing investigations to obtain local information of eagle sightings and potential new nests.

Survey Routes. The survey routes by watercraft followed the Project shorelines. Other surveys were conducted by land-based vehicles, or on foot to locations where there were new observations of adult eagles.

Survey Dates. Surveys were initiated in March with the monitoring efforts, during the ongoing monitoring, and during territory investigations. Documentation for any new nest, or suspected

new nest encountered during the surveys include a minimum of two nest photographs, GPS location, and relevant descriptive information indicating nest location, nest condition, proximity to known nests, and significant habitat alterations. All new nest data was recorded on standardized data forms and are included in *Appendix B.*

3.2 Results

Two new nests were located during the survey efforts in 2019: One nest in a new territory and one new alternative nest (*Table 3*). The new territory of Little Sandy was first identified this year. The new Fernan Lake West nest was constructed this year during the nesting season. Both new nests are included in the 2019 monitoring effort. These new nests are included in the GIS database along with the locations of the other bald eagle nests (*Figures 1 and 2*).

Table 3. 2019 New Bald Eagle Nests

Territory Name	Number	Latitude, Longitude	Nest in Planning Area	Location/ Relationship to known territories	Notes
NEW NEST, NEW TERRITORY					
Little Sandy, WA	06W11001	47.829281, -117.619037	No	0.75 mi. northwest of Suncrest 02; 1.4 miles east of Sportsman	Active in 2019
NEW NEST, EXISTING TERRITORY					
Fernan West, ID	07I03403	47.670694, -116.737262	No	250 feet uphill of Fernan 01 nest	Active in 2019

4.0 NESTING TERRITORY INVESTIGATION

The nesting territory investigations are conducted over two consecutive years. The purpose of these investigations is to identify nesting territories and associated primary use areas, home ranges, and key use sites of all known bald eagle nesting territories that include active or alternate nests within the Monitoring Area.

Results of the investigations for nesting territories that are located in the Planning Area are to be included in Appendix C as site specific management plans. There were no territory investigations conducted in 2018 and 2019 located in the Planning Area and therefore there are no Appendix C site specific management plans within this report.

Results of the investigations for nesting territories that are not located in the Planning Area are summarized below. 2019 was year two of investigations for the Fernan West and Heyburn Park South nesting territories in Idaho. 2019 was year one for the Upper Spokane River nesting territory in Idaho and Four Mound nesting territory in Washington.

4.1 Methods

The methods summarized below follow those detailed in the Plan. Professional judgment was used as appropriate to modify these methods for site-specific circumstances.

Location of Territories. Territory locations were identified by water body; Washington or Idaho county; Section, Township and Range; parcel owners; nearby developments; and land use.

Study Dates and Schedules. Observers collected two nesting seasons of habitat-use data at each of the nests. Observation periods were scheduled once every two weeks for each nest under investigation, from March 1 through July 31. Observation periods occurred from either (i) first light to mid-morning or (ii) two to three hours before sunset to dusk. A combination of morning and evening observation data was collected for each territory under investigation. The observation periods were occasionally extended into late morning hours for investigations if temperatures remained moderate.

Study Methods. During each observation period, eagle activity was recorded on standardized data forms in a time-interval format referenced to locations marked on a map and/or recorded by GPS. The information documented included: begin and end time, eagle (female, male, or juvenile), location (referenced to map or by GPS), activity, disturbances, and other pertinent information described in the Plan. Observers summarized habitat use by the number of minutes each eagle spent using each habitat feature.

Observers followed nesting eagles as far as safely and legally possible during the observation period. Observations were conducted from water and/or land, and a variety of vantage points were used. The observation locations were marked on a map or recorded by GPS.

Eagle activities, locations, and habitat features referenced during the investigation were entered into a spatially-linked GIS database after two years of investigations. Habitat use was summarized by the number of minutes each eagle spent using each habitat feature. GIS analysis was used to identify, delineate and quantify the bald eagle nesting territories, home range, primary use areas, and key use sites from the data collected during the field investigations.

Home range, Nesting territory, Primary use areas, Key use sites, and Disturbances. Territory size and shape are affected by topography, available tree structure and prey base. Home range is defined as the geographic area defined by movements and locations of bald eagles. The area may be defined annually, seasonally, daily or any part thereof (Montana Bald Eagle Working Group 1994). Therefore, the home range boundaries were delineated using the extent of eagle movement during this observation period and supplemented with relevant information from other sources. Home ranges, nest territories, nest sites, perch trees, and roost stands are not permanent locations and are anticipated to change over time. Movement and use sites during the fall and winter were not investigated and were therefore not included as part the home range in this report.

The nesting territory includes primary use areas and key use sites occupied by eagles. Primary use areas were defined as areas occupied by eagles greater than 75% of the time during investigations. Key use sites include nests, primary perches, and roosting stands. Nesting territory boundaries were delineated by incorporating a 660-foot buffer around the active nest sites and a 300-foot buffer around the primary perches to encompass the flight patterns between these sites following USFWS (2007) guidelines.

Disturbances are those activities noted during investigations or from other sources that resulted in disturbance or agitation to nesting eagles and/or reduced the quality or availability of local nesting habitat.

4.2 Results

Fernan West Nesting Territory Investigation

Location. The Fernan West bald eagle territory is located at Fernan Lake, RM 2.3, in Kootenai County, Idaho. It is 1.3 miles west of the active Fernan East nesting territory. The territory is located primarily in the north half of Section 20, Township 5 North, Range 03 West. The parcels in the bald eagle territory area include Idaho Department of Lands, City of Coeur d'Alene, and private ownership. Habitat in the territory includes the aquatic habitat of Fernan Lake and the steep north facing hillslope of mixed conifer forest. There is a public boat launch at the west end of Fernan Lake and two public fishing access pullouts along East Fernan Lake Road which is at the north boundary of the territory. There is residential development only at the west end of the territory. There are two overhead transmission corridors that intersect the territory.

Study dates and Schedules. Territory observation periods in 2018 and 2019 were conducted as detailed in the Plan. A total of 11 territory investigations observation were conducted per year, for a total of 22 territory investigations.

Study methods. Study methods detailed in the Plan for investigations produced time-interval records about eagle activities, locations, habitat use, and potential disturbances.

Results. The results of habitat-use investigations include a brief narrative and map conveying the information about home range estimates, primary use areas, key use sites, and disturbances to nesting eagles or eagle habitat. The topography, land use, home range, and nesting territory elements are shown in *Figure 3.*

Home range estimates. The home range extends over 444 acres: over 1.3 miles long and 0.66 miles wide. The home range encompasses the north and south shorelines of Fernan Lake and East Fernan Lake Road There is a wetland at the west outlet. The home range also extends west beyond Fernan Lake over Interstate 90 to unknown locations by Coeur d'Alene Lake. The eagles were observed flying to and returning from that direction. Attempts to follow the eagles to locations beyond Fernan Lake were not successful. Therefore the west extent of the home range boundaries and acreage are the minimum used by the eagles.

Nesting territory estimates. The nesting territory is approximately 135 acres: up to 0.97 miles along the south shore of Fernan Lake and up to 0.32 miles wide. Nesting territory boundaries were delineated on the maps incorporating primary use areas. The nesting territory includes Fernan Lake, the south shoreline, and the adjacent forested hillslope. There are no wetlands in the nesting territory. There is one north/south overhead transmission corridors that spans the nesting territory. There are no roads or other development in the nesting territory.

Primary use areas and key use sites (including nest sites, primary perches, prey capture sites, and roost stands)

Nest sites. Prior to 2017 there was one nesting pair with one active (07I03401) and one alternative (07I03402) nest at Fernan Lake. Since 2017, the Fernan Lake Territory was split into two territories, Fernan West (107I03401) and Fernan East (07I03402) each with a nesting pairs of eagles. In 2019 the Fernan West pair built another nest (07I03403) at the start of the nesting season. The new Fernan West nest is located about 250 feet uphill of the 2017/2018 nest in a split top Douglas fir. The change in nest location may have been the result of a change of one or more of the nesting pair.

Primary perches. There are nine primary perches. All primary perch locations are located along the south hillslope. The primary perches are in trees that afforded optimal views of the nesting territory and at prey capture sites. Three are at shoreline locations.

Prey capture sites. There were nine identified prey capture sites**.** Eight were aquatic. Four of the nine eight prey capture locations were identified within the nesting territory. Fish were observed as the dominant prey. Other potential prey species include hatchlings of waterfowl or unidentified upland prey.

Roost stands. There was one roost stand that was utilized during the investigation. It is located east of the nest in a conifer thicket.

Disturbances

Typically the eagles were not disturbed by the routine activities such as transportation, development, or infrastructure that were present prior to eagle nesting. Disturbances noted below are listed according to highest degree of disturbance and frequency. The activities were either observed during investigations to disturb nesting eagles, or to have the potential to disturb the nesting eagles. No observable land use changes or construction was observed in the nesting territory during the two year investigation. Despite the potential for disturbances from osprey, ravens, and recreation, productivity has been stable at this nesting territory.

Osprey. Osprey caused the main disturbances to nesting eagles; they were present at nearly all observation dates. They were first observed in the territory at the end of March. By this time the eagle pair had been through courtship, nest-building, and started incubation. There were no osprey nests observed within the home range. Territory defense actions within the home range and nesting territory and conflicts over aquatic prey captures were regular occurrences with vocalizations and pursuit flights.

Ravens. Ravens were also observed disturbing the nesting eagles in May and June. They usually flew in groups of two to four as close as 50 feet from the nest causing the eagles territory defense actions such as vocalizations and pursuit typically for a duration of about two minutes, although one interaction was off and on for 30 minutes. There may have been nests or a rookery within the territory.

Human activity. The eagles were generally not disturbed by the regular human activities, but there was regular recreation observed during the investigations including anglers in boats, motor boats, weekly crew practice with up to six vessels, and kayaking. Watercraft was launched at the public boat ramp. North shore anglers were not observed disturbing the eagles. On a couple occasions when boaters momentarily approached the primary perches, the eagles appeared distracted or flushed to a nearby perch. There were no hiking trails or hikers in the nesting territory

Other Disturbances. On one occasion two Canada geese flew after the female eagle after her prey capture attempt of goslings. The geese followed the eagle to the nest and circled while vocalizing for about two minutes.

The Fernan West pair occasionally flew to the east territory boundary to meet and challenge the Fernan East eagles. Flight and vocalizations were the common territory defense actions.

Avista Project Operations. There are no Avista infrastructure elements located in the Fernan West home range or nesting territory with the exception of a north/south transmission line spanning the lake. There was no observed disturbance.

Heyburn Park South Nesting Territory Investigation

Location. The Heyburn Park South bald eagle territory is located at Chatcolet Lake south of Coeur d'Alene Lake, RM 1.7, in Benewah County, Idaho. It is 1.2 miles southwest of the active Heyburn Park North nesting territory. The territory is located primarily in Section 1, Township 46 North, and Range 04 West. Nearly all of the terrestrial bald eagle territory area is in Heyburn State Park. Habitat in the territory includes the aquatic habitat of Chatcolet Lake and the surrounding hillslopes of mixed conifer forest. There are cliffs on the southeast facing hillslope. The wetland is located at the west bay of Chatcolet Lake at the Plummer Creek inlet. There are several park features within the territory including campgrounds, day use areas, park office headquarters, interior roads, sewer treatment, hiking trails, several boat docks, and also the paved Trail of the Coeur d'Alene's. State Highway 5 is located at the south boundary of the territory. There are leased cabins concentrated at Hawley's Landing.

Study dates and Schedules. Territory observation periods in 2018 and 2019 were conducted as detailed in the Plan. A total of 11 territory investigations observation were conducted per year, for a total of 22 territory investigations.

Study methods. Study methods detailed in the Plan for investigations produced time-interval records about eagle activities, locations, habitat use, and potential disturbances.

Results. The results of habitat-use investigations include a brief narrative and map conveying the information about home range estimates, primary use areas, key use sites, and disturbances to nesting eagles or eagle habitat. The topography, land use, home range, and nesting territory elements are shown in *Figure 4.*

Home range estimates. The home range extends about 960 acres: 1.61 miles long and 1.27 miles wide. The home range encompasses the northwest and south hillslopes, wetlands, shorelines, and Chatcolet Lake and much of the Park infrastructure.

Nesting territory estimates. The nesting territory is approximately 212 acres: 0.81 miles long and 0.66 miles wide. Nesting territory boundaries were delineated on the maps incorporating primary use areas. The prey capture sites near the primary perches are included in the nesting territory. The nesting territory includes the west portion of Chatcolet Lake, the east edge of the wetlands, the northeast shoreline with adjacent forested hillslopes shoreline and a perch on the south shoreline. Some of the park interior roads, trails, and day use areas intersect the nesting territory.

Primary use areas and key use sites (including nest sites, primary perches, prey capture sites, and roost stands)

Nest sites. The Heyburn Park South nest has been located in the same very large tall snag since monitoring began in 2012. It is located on the southeast facing slope just above the park interior road.

Primary perches. There are five primary perches. All but one primary perches are located near the nest. The primary perches are in trees that afforded optimal views of the nesting territory and at prey capture sites. Three are at shoreline locations.

Prey capture sites. Eight of nine prey capture locations are identified in the nesting territory. All but one are were aquatic locations with fish identified as the prey species. Other potential prey species include the numerous waterfowl hatchling opportunities of the bay.

Roost stands. There were two roost stands that were utilized during the investigation. Both were located southwest of the nest in conifer thickets.

Disturbances

Typically the eagles were not disturbed by the routine activities such as transportation, development, or infrastructure that were present prior to eagle nesting. Disturbances noted below are listed according to highest degree of disturbance and frequency. The activities were either observed during investigations to disturb nesting eagles, or to have the potential to disturb the nesting eagles. No observable land use changes or construction was observed in the nesting territory during the two year investigation. There were relatively very few disturbances or potential disturbances observed at the Heyburn Park South territory during the two year investigation. Productivity has been stable.

Human activity. The eagles were generally not disturbed by the regular human activities, but there was regular recreation observed during the investigations including anglers in boats, motor boats, with bicycling and walking on the numerous trails. On a couple occasions when anglers or walkers approached eagles they appeared distracted or flushed to a nearby perch. There were no observable land use changes or construction was observed in the nesting territory during the two year investigation.

Other eagles. Immature eagles were observed in the territory on just a couple occasions early in the nesting season, but no disturbance was observed to the nesting pair.

Other. On a single observation, an osprey flew within 100 feet of the nest. The male eagle pursued it for 12 minutes circling up and out of the territory. There were no observed osprey nests in the territory. On two occasions an eagle was observed pursuing an osprey with a fish until the osprey dropped it. The fish was then retrieved by the eagle. On a single observation, a turkey vulture flew about 100 feet from the nest and the eagle pursued it for 10 minutes out of the territory.

Avista Project Operations. There are no Avista infrastructure elements located in the home range or nesting territory.

4.3 Discussion

Fifteen territory investigations have been initiated since 2012. *Table 4* summarizes the current results of the seasons of nesting territory investigations through 2019.

Table 4. Bald Eagle Nesting Territory Investigation Summary (2012 – 2019)

Territory Name	Territory Number	Planning Area	Distance to Nearest Nest	Location	Study Dates	Home Range Estimate	Nesting Territory Estimate	Disturbance to Eagles or Habitat
Whalen, WA	06W2973	Yes	1 mile	RM 44.5	2012/ 2013	675 ac.	120 ac.	Osprey, other eagles, angler
Long Lake South, WA	06W2209	Yes	2 miles	RM 39.5	2012/ 2013	800 ac.	260 ac.	Other eagles, ranching operations
Lower Spokane River, WA	06W2209	No	2.1 miles	RM 33.3	2013/ 2014	208 ac.	88 ac.	Osprey, other eagles, human
Post Falls, ID	07I08001	Yes	2.5 miles	RM 102	2013/ 2014	201 ac.	42.5 ac.	Osprey, other eagles, construction
North Shore, WA	06W10401	Yes	2 miles	RM 36	2014/ 2015	1247 ac.	103 ac.	Ravens, other eagles, recreation
Suncrest, WA	06W10301	No	2 miles	RM 53	2014/ 2015	434 ac.	106 ac.	Human, great horned owl
Mica Bay, ID	07I05401	No	3.5 miles	RM 117.5	2015/ 2016	567ac.	113 ac.	Residential
Willow Bay, WA	06W10201	No	1mile	RM 45.6	2015/ 2016	966 ac.	202 ac.	Other eagles, osprey, Hwy, resort
Powerball, WA	06W10701	Yes	2.2 miles	RM 42.5	2016/ 2017	598 ac.	240 ac.	Osprey, other eagles
Riverside Launch, WA	06W10601	No	1.3 miles	RM 56.6	2016/ 2017	410 ac.	102 ac.	Osprey, recreation
Deep Creek, WA	06W10902	Yes	2.2 miles	RM 60	2017/ 2018	529 ac.	191 ac.	Osprey, recreation, residential
Fernan West, ID	07I03403	No	1.3 miles	RM 2.3	2018/ 2019	444+ ac.	135 ac.	Osprey, ravens, recreation
Heyburn Park South, ID	08I05702	No	1.2 miles	RM 1.7	2018/ 2019	TBD	TBD	Park recreation
Upper Spokane River, ID	07I10202	No	2.5 miles	TBD	2019	TBD	TBD	TBD
Four Mound, WA	06W10502	No	1.3 miles	TBD	2019	TBD	TBD	TBD

Within the Planning Area, there are currently six bald eagle territories, all of which have had territory investigations and site-specific management plans completed. These plans are located in Appendix C of the Annual Bald Eagle Management Plan reports dated 2012-2018 as shown in *Table 4.* Any new nests located within the Planning Area will have site-specific management plans completed. Nesting territories are omitted from investigations with mutual agreement of USFWS, IDFG, and WDFW as appropriate.

5.0 REFERENCES

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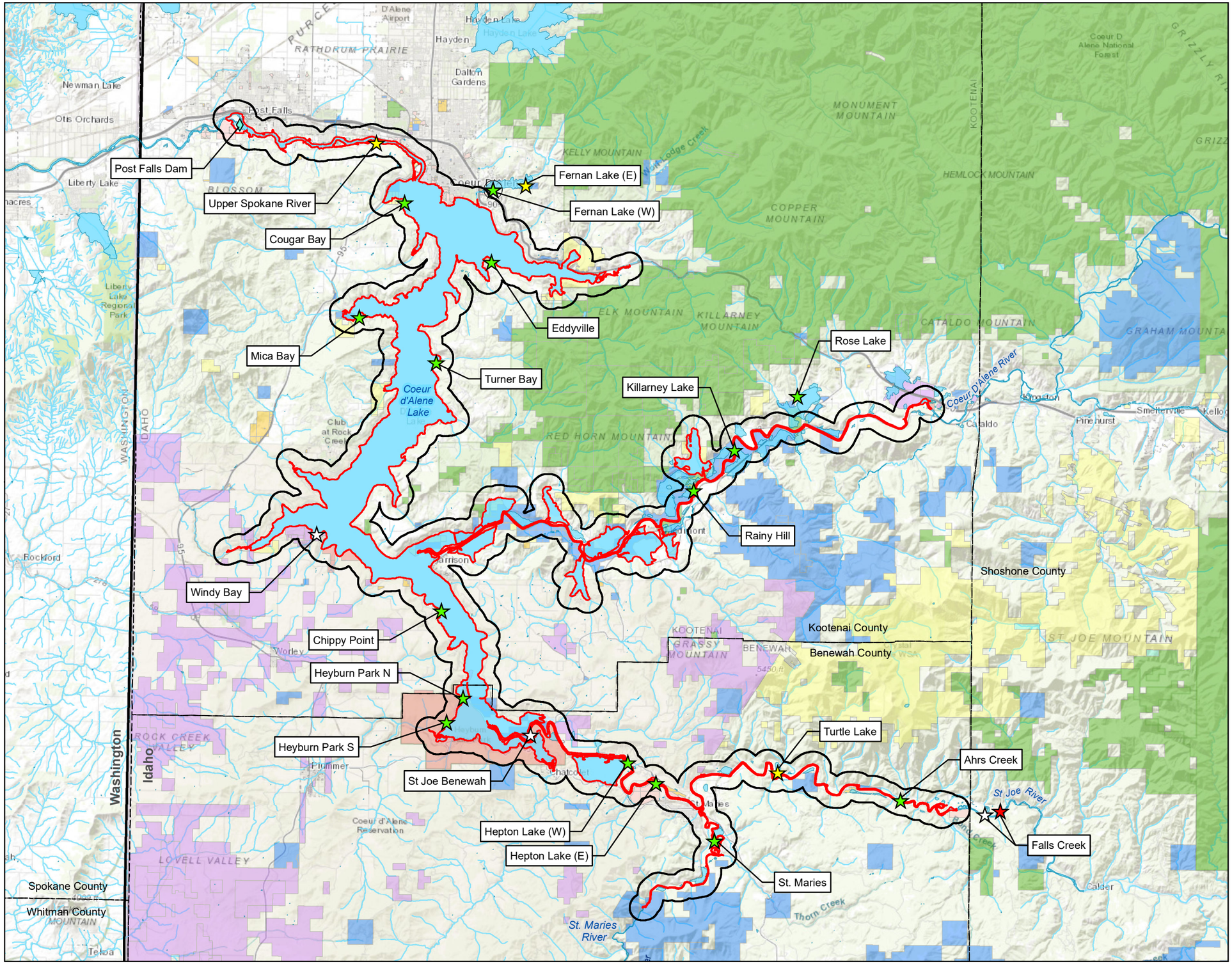
FIGURES



LEGEND

2019 Bald Eagle Nests

- New
- Active, Successful
- Active, Not Successful
- Active, Success Unknown
- Not Active/Alternate
- Collapsed
- Historic
- Status Unknown

- Post Falls HED Boundary
- Survey Area
- Avista-Owned Land/Planning Area

Surface Land Management/Ownership

- BLM
- City
- County
- FED
- State
- State Parks
- Tribe
- USFS

Bald eagle nest location data are confidential and are not for public circulation

N

0 4

Scale in Miles

Map Projection:
Idaho State Plane
West Zone (ft) NAD 1983

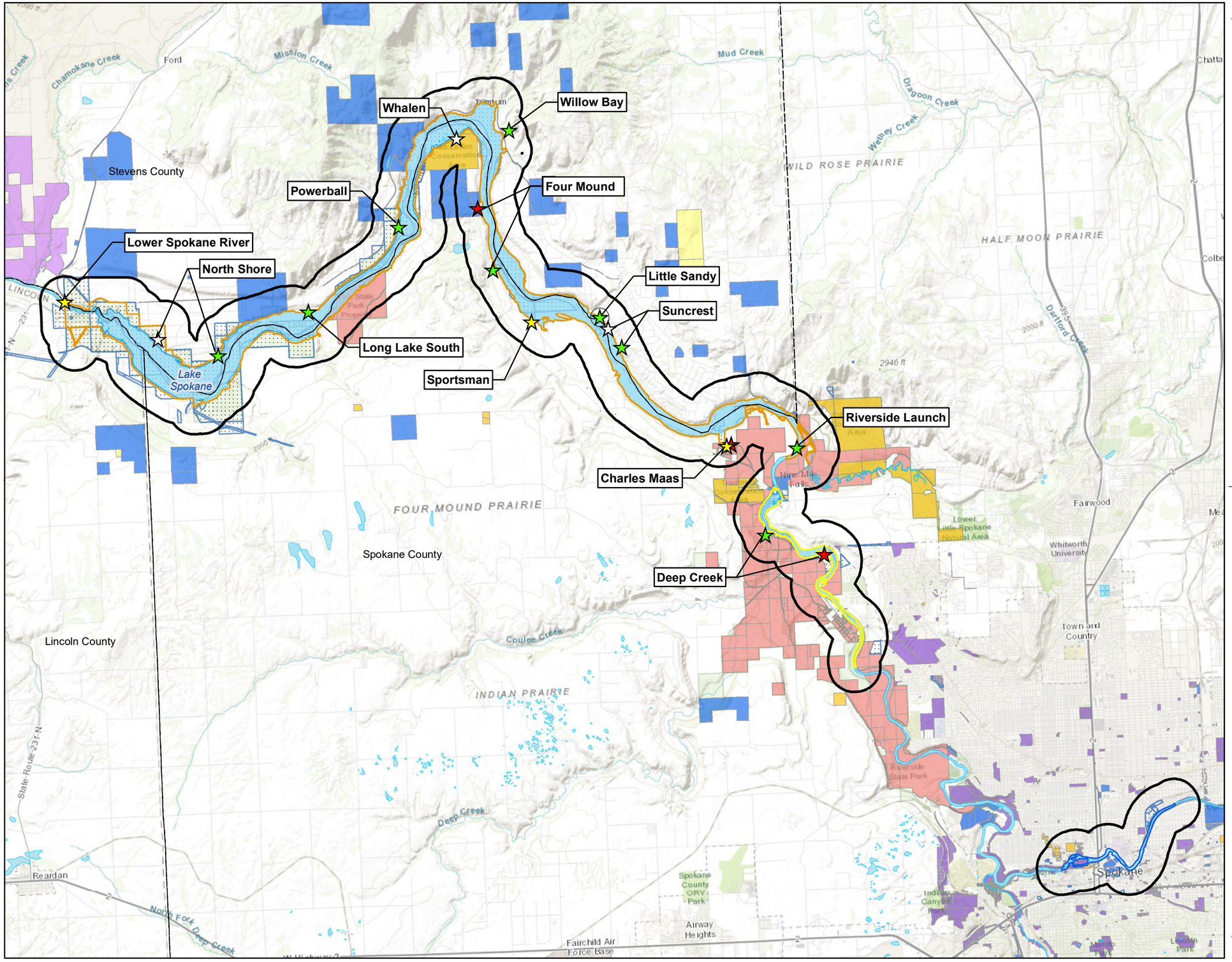
Source:
Avista (HED areas, land ownership),
USDA-NRCS (quadrangle county mosaics),
Bureau of Land Management (surface land management),
WDFW (bald eagle locations),
David Evans and Associates, Inc. (bald eagle locations),
Background Service Layers: ESRI, DeLorme, NAVTEQ, TomTom, Intermap, USGS

FIGURE **1**

BALD EAGLE NESTING LOCATIONS ASSOCIATED WITH WATERS IMPOUNDED BY THE SPOKANE RIVER PROJECT IN IDAHO

LICENSE ARTICLE 414

Document Path: H:\Nest Sites, Eagle, other\2019 Bald Eagle Lee Stragis\Fig1_2019-Idaho_December.mxd | 12-30-2019 | David Evans and Associates, Inc.



LEGEND

2019 Bald Eagle Nests

- New
- Active, Successful
- Active, Not Successful
- Not Active/Alternate
- Collapsed
- Survey Area
- Monroe St./Upper Falls HED Boundary
- Nine Mile HED Boundary
- Long Lake HED Boundary

Surface Land Management/Ownership

- Avista
- BLM
- City
- County
- State
- State Parks
- Tribe

Bald eagle nest location data are confidential and are not for public circulation

N

0 2 4

Scale in Miles

Map Projection:
Washington State Plane
North Zone NAD 1983

This figure was originally produced in color. Reproduction in black and white may result in a loss of information.

Source:
Avista (HED areas, land ownership), ESRI (hillshade), USDA-NRCS (quadrangle county mosaics), Bureau of Land Management (surface land management), WDFW (bald eagle nests), Golder Associates Inc.

FIGURE **2**

BALD EAGLE NESTING LOCATIONS ASSOCIATED WITH WATERS IMPOUNDED BY THE SPOKANE RIVER PROJECT IN WASHINGTON

LICENSE ARTICLE 414

0739308101700F11R01_Washington_Overview.mxd | 2/11/2010 | BVANG-JOHNSON

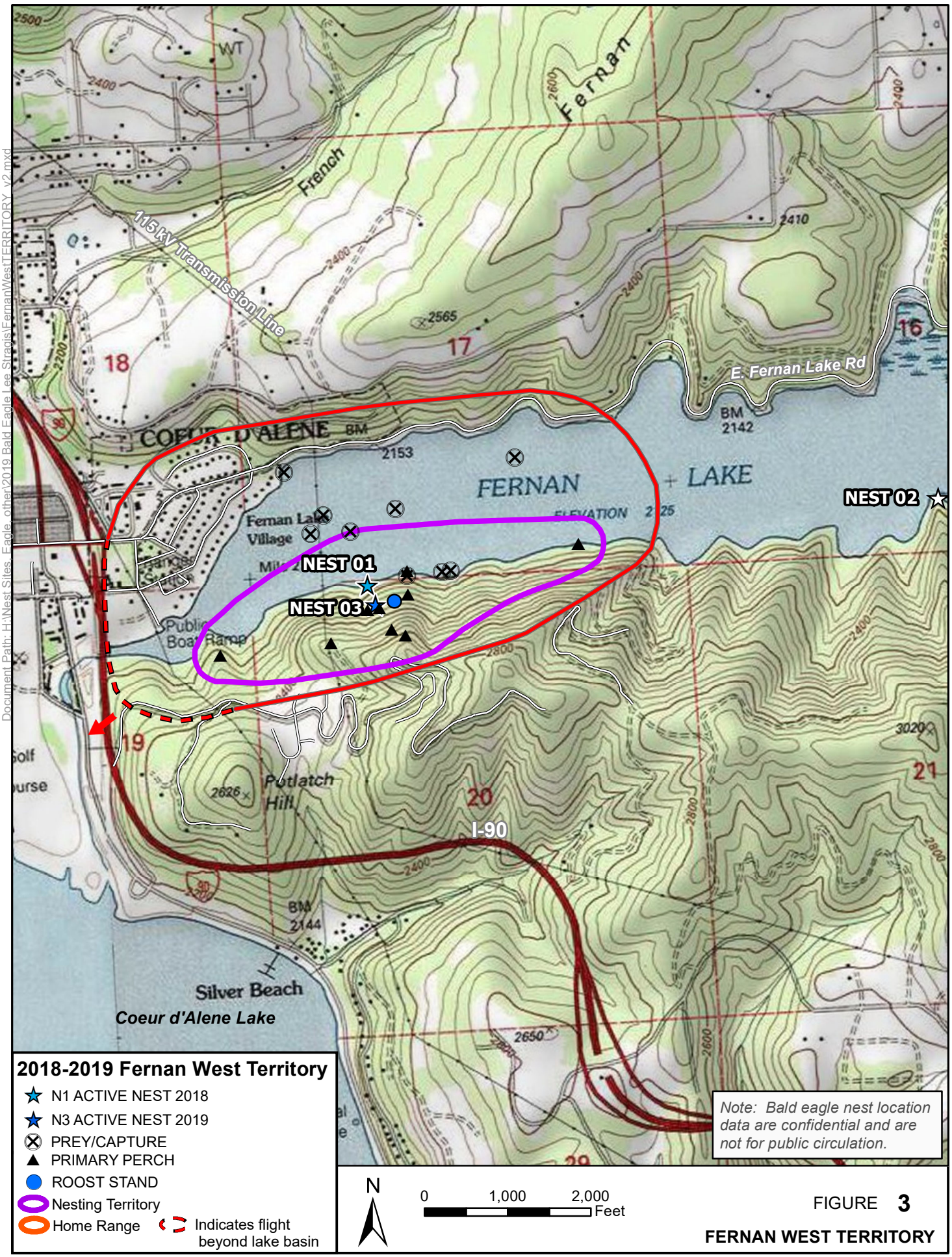


FIGURE **3**

FERNAN WEST TERRITORY

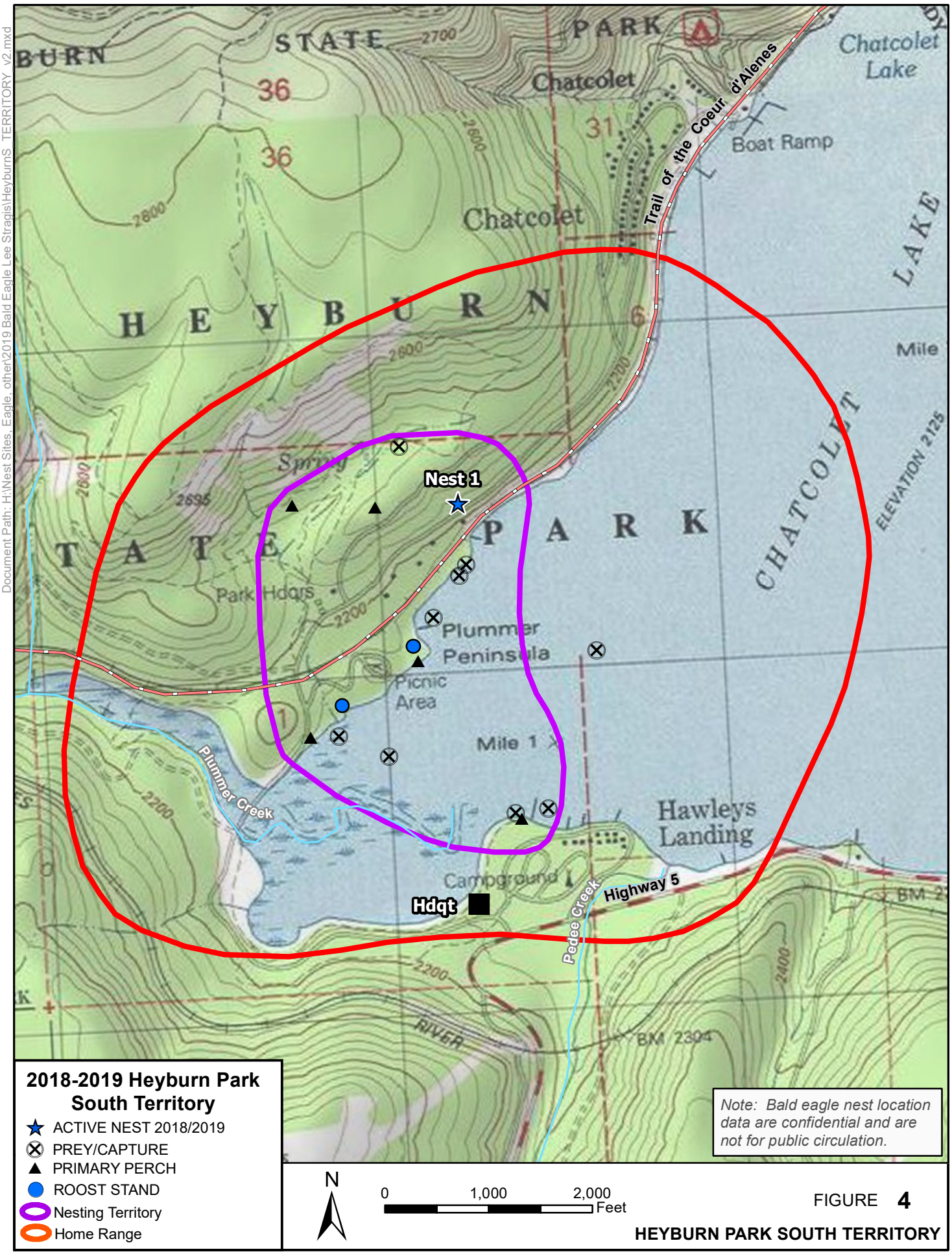


FIGURE **4**

HEYBURN PARK SOUTH TERRITORY

APPENDIX A

2019 OCCUPANCY AND MONITORING FORMS

Page 1 of 1

SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000)
BALD EAGLE NEST MONITORING FORM
20 19

I. ID

Territory Name: Ahrs Cr. Territory/Nest Number: 103-01 Observer Initial: RS Reviewer Initial: LS

II. SURVEY SUMMARY

Survey Code
☐ (1) Not Checked ☐ (2) Not Located ☐ (3) No Initial Occupancy Determination ☐ (4) No Nesting Status Update ☐ (5) Productivity Not Determined
☑ (6) Complete Survey, Productivity Determined

Status Code
☐ (1) Unoccupied ☐ (2) Other Species ☐ (3) Single Adult ☑ (4) Occupied ☑ (5) Active ☐ (6) Unsuccessful ☑ (7) Successful

Nest Condition Code
☐ (1) New ☑ (2) Good ☐ (3) Fair ☐ (4) Poor ☐ (5) Nest Destroyed: _____

Nesting Determination
☐ (1) Status Unknown ☐ (2) Not Active ☐ (3) Nest Abandoned ☐ (4) Active, Not Successful ☐ (5) Active, Success Unknown ☑ (6) Successful

Number of Fledglings: 1 young (at or near fledging age)

by St. Joe City Sub boxes + pull out

III. SURVEY RESULTS

Nest tree is a live cottonwood. It IS visible from St. Joe River Road.

OBSERVATION PERIOD	Date Checked	Nest Condition	Nesting Activity (construction etc.)	Adult Presence / Behavior	Incubation/Brooding Posture	Number of Young	Stage of Young
Initial Determination of Occupancy **February 1 – March 31** (pre-egg laying and early incubation)	5/28/19	2	n/a	Not present	n/a	2	3b
	Nest visible from	shoulder of St. Joe	River Rd. In	cottonwood tree. 200m	away.		
	Both B.E. have brown feathers on head.						
Update Nesting Status **April 1 – June 15** (late incubation and nestlings)	6/25/19	2	(1 adult observed circling 2x over		~~couldn't see it well~~	≥1	3a
			nest tree & then	flew out of view.)	~~but~~ It was flapping	it's wings near	
					nest edge.		
Determine Productivity **June 15 – July 31** (late nestling and fledging)	7/16/19	2		0		0	

SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000)

BALD EAGLE NEST MONITORING FORM

20 19

I. ID

Territory Name: Chippy Pt. Territory/Nest Number: 105-01 Observer Initial: RS Reviewer Initial: LS

II. SURVEY SUMMARY

Survey Code

☐ (1) Not Checked ☐ (2) Not Located ☐ (3) No Initial Occupancy Determination ☐ (4) No Nesting Status Update ☐ (5) Productivity Not Determined
☑ (6) Complete Survey, Productivity Determined

Status Code

☐ (1) Unoccupied ☐ (2) Other Species ☐ (3) Single Adult ☑ (4) Occupied ☑ (5) Active ☐ (6) Unsuccessful ☑ (7) Successful

Nest Condition Code

☐ (1) New ☑ (2) Good ☐ (3) Fair ☐ (4) Poor ☐ (5) Nest Destroyed: _____

Nesting Determination

☐ (1) Status Unknown ☐ (2) Not Active ☐ (3) Nest Abandoned ☐ (4) Active, Not Successful ☐ (5) Active, Success Unknown ☑ (6) Successful

Number of Fledglings: 1 young (at or near fledging age)

III. SURVEY RESULTS

OBSERVATION PERIOD	Date Checked	Nest Condition	Nesting Activity (construction etc.)	Adult Presence / Behavior	Incubation/Brooding Posture	Number of Young	Stage of Young
Initial Determination of Occupancy **February 1 – March 31** (pre-egg laying and early incubation)							
Update Nesting Status **April 1 – June 15** (late incubation and nestlings)	6/12	2	n/a	1 Adult perched ~ 20m away from nest	n/a	2	3c
	7/1/19	2		0		1	
Determine Productivity **June 15 – July 31** (late nestling and fledging)	7/23/19	2		0		0	

nest tree is 20m from house

 Territory/Nest Number:_____

IV. **SUPPLEMENTAL NESTING INFORMATION (If known)**

Date of adult arrival:		**Date of adult dispersal:**	
Date of egg laying:		**Clutch size:**	
Date of hatching:		**Date/Number of fledglings at dispersal:**	
Date of fledging:		**Banding data:**	

V. **NARRATIVE INFORMATION**

Nesting attempt failed (Yes/No), date/nesting period of failure:_____

Reason for failure:_____

_____

Nest Abandoned (Yes/No), date:_____

Reason for abandonment:_____

_____

Disturbing Activities (record type, duration, and proximity to nest) Nest tree is 20m from a house

_____

_____

Habitat Alterations (record type, extent, and proximity to nest) _____

_____

_____

Ongoing Disturbances (record type, extent, and proximity to nest) _____

_____

_____

Prepared by:_____ **Date:**_____

Reviewed by:_____ **Date:**_____

SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000)
BALD EAGLE NEST MONITORING FORM
2019

I. ID

Territory Name: Cougar Bay Territory/Nest Number: 35-02 Observer Initial: RS Reviewer Initial: LS

II. SURVEY SUMMARY

Survey Code
☐ (1) Not Checked ☐ (2) Not Located ☐ (3) No Initial Occupancy Determination ☐ (4) No Nesting Status Update ☐ (5) Productivity Not Determined
☑ (6) Complete Survey, Productivity Determined

Status Code
☐ (1) Unoccupied ☐ (2) Other Species ☐ (3) Single Adult ☑ (4) Occupied ☑ (5) Active ☐ (6) Unsuccessful ☑ (7) Successful

Nest Condition Code
☐ (1) New ☑ (2) Good ☑ (3) Fair ☐ (4) Poor ☐ (5) Nest Destroyed: _____

Nesting Determination
☐ (1) Status Unknown ☐ (2) Not Active ☐ (3) Nest Abandoned ☐ (4) Active, Not Successful ☐ (5) Active, Success Unknown ☑ (6) Successful

Number of Fledglings: 1 young (at or near fledging age)

III. SURVEY RESULTS

OBSERVATION PERIOD	Date Checked	Nest Condition	Nesting Activity (construction etc.)	Adult Presence / Behavior	Incubation/Brooding Posture	Number of Young	Stage of Young
Initial Determination of Occupancy **February 1 – March 31** (pre-egg laying and early incubation)							
Update Nesting Status **April 1 – June 15** (late incubation and nestlings)	6/11/19	2@3		Absent	n/a	≥ 1	
	7/1/19	2		1 - Perched 200m to N		1	3d
Determine Productivity **June 15 – July 31** (late nestling and fledging)	7/22/19	2/3		2			
				Perched in snag 100m away		1 - Perched on nest rim.	

Territory/Nest Number: _____

IV. SUPPLEMENTAL NESTING INFORMATION (If known)

Date of adult arrival:		**Date of adult dispersal:**	
Date of egg laying:		**Clutch size:**	
Date of hatching:		**Date/Number of fledglings at dispersal:**	
Date of fledging:		**Banding data:**	

V. NARRATIVE INFORMATION

Nesting attempt failed (Yes/No), date/nesting period of failure: _____

Reason for failure: _____

_____

Nest Abandoned (Yes/No), date: _____

Reason for abandonment: _____

_____

Disturbing Activities (record type, duration, and proximity to nest) Two houses w/in 100m of nest. House on S side is burning in yard & smoke going ↓ towards nest. 6/11/19 It's a small fire & amount of smoke.

_____

Habitat Alterations (record type, extent, and proximity to nest) _____

_____

_____

Ongoing Disturbances (record type, extent, and proximity to nest) _____

_____

_____

Prepared by: _____ **Date:** _____

Reviewed by: _____ **Date:** _____

SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000)
BALD EAGLE NEST MONITORING FORM
2019

I. ID

Territory Name: Eddyville Territory/Nest Number: 077-01 Observer Initial: RS Reviewer Initial: LS

II. SURVEY SUMMARY

Survey Code
☐ (1) Not Checked ☐ (2) Not Located ☐ (3) No Initial Occupancy Determination ☐ (4) No Nesting Status Update ☐ (5) Productivity Not Determined
☑ (6) Complete Survey, Productivity Determined

Status Code
☐ (1) Unoccupied ☐ (2) Other Species ☐ (3) Single Adult ☑ (4) Occupied ☑ (5) Active ☐ (6) Unsuccessful ☑ (7) Successful

Nest Condition Code
☐ (1) New ☑ (2) Good ☐ (3) Fair ☐ (4) Poor ☐ (5) Nest Destroyed: _____

Nesting Determination
☐ (1) Status Unknown ☐ (2) Not Active ☐ (3) Nest Abandoned ☐ (4) Active, Not Successful ☐ (5) Active, Success Unknown ☑ (6) Successful

Number of Fledglings: 1 young (at or near fledging age)

III. SURVEY RESULTS

OBSERVATION PERIOD	Date Checked	Nest Condition	Nesting Activity (construction etc.)	Adult Presence / Behavior	Incubation/Brooding Posture	Number of Young	Stage of Young
Initial Determination of Occupancy **February 1 – March 31** (pre-egg laying and early incubation)							
Update Nesting Status **April 1 – June 15** (late incubation and nestlings)	6/11/19	2		♀ Perched on limb below nest	n/a	2	
	7/1/19	2		No adults		≥ 1	3d
Determine Productivity **June 15 – July 31** (late nestling and fledging)							
	7/22/19	2/3		✓		1	
				1 fledgling on limb below nest			

SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000)
BALD EAGLE NEST MONITORING FORM
2019

I. ID

Territory Name: Falls Cr. W Territory/Nest Number: 37-03 Observer Initial: RS Reviewer Initial: LS

II. SURVEY SUMMARY

Survey Code
☐ (1) Not Checked ☐ (2) Not Located ☐ (3) No Initial Occupancy Determination ☐ (4) No Nesting Status Update ☐ (5) Productivity Not Determined
☒ (6) Complete Survey, Productivity Determined

Status Code
☒ (1) Unoccupied ☐ (2) Other Species ☐ (3) Single Adult ☐ (4) Occupied ☐ (5) Active ☐ (6) Unsuccessful ☐ (7) Successful

Nest Condition Code
☐ (1) New ☐ (2) Good ☒ (3) Fair ☐ (4) Poor ☐ (5) Nest Destroyed: _____

Nesting Determination
☐ (1) Status Unknown ☒ (2) Not Active ☐ (3) Nest Abandoned ☐ (4) Active, Not Successful ☐ (5) Active, Success Unknown ☐ (6) Successful

Number of Fledglings: 0 young (at or near fledging age)

III. SURVEY RESULTS

OBSERVATION PERIOD	Date Checked	Nest Condition	Nesting Activity (construction etc.)	Adult Presence / Behavior	Incubation/Brooding Posture	Number of Young	Stage of Young
Initial Determination of Occupancy **February 1 – March 31** (pre-egg laying and early incubation)	5/28	3	n/a	None observed	n/a	0	
	No nest. Nest material observed in nest. Difficult to see through. Nest appears to be collapsing. I did not detect "Falls Cr. E." John Darden owns land the nest is on.						
Update Nesting Status **April 1 – June 15** (late incubation and nestlings)							
Determine Productivity **June 15 – July 31** (late nestling and fledging)	6/25/19	3	No sign of B.E. activity at nest			0	

5/28/19 (cont.) - I talked w/his son, Jack Darden Jr. + he said his dad might give access to walk 2-track through his hay field 208 245-3983. I observed nest from Railroad Grade Rd, not visible from St. Joe River Rd.

SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000)
BALD EAGLE NEST MONITORING FORM
20 19

I. ID

Territory Name: Falls Creek E Territory/Nest Number: 037-02 Observer Initial: RS Reviewer Initial: LS

II. SURVEY SUMMARY

Survey Code
☐ (1) Not Checked ☑ (2) Not Located ☑ (3) No Initial Occupancy Determination ☐ (4) No Nesting Status Update ☐ (5) Productivity Not Determined
☐ (6) Complete Survey, Productivity Determined

Status Code
☐ (1) Unoccupied ☐ (2) Other Species ☐ (3) Single Adult ☐ (4) Occupied ☐ (5) Active ☐ (6) Unsuccessful ☐ (7) Successful

Nest Condition Code
☐ (1) New ☐ (2) Good ☐ (3) Fair ☐ (4) Poor ☐ (5) Nest Destroyed: Not found

Nesting Determination
☑ (1) Status Unknown ☐ (2) Not Active ☐ (3) Nest Abandoned ☐ (4) Active, Not Successful ☐ (5) Active, Success Unknown ☐ (6) Successful

Number of Fledglings: _____ young (at or near fledging age)

III. SURVEY RESULTS

OBSERVATION PERIOD	Date Checked	Nest Condition	Nesting Activity (construction etc.)	Adult Presence / Behavior	Incubation/Brooding Posture	Number of Young	Stage of Young
Initial Determination of Occupancy **February 1 – March 31** (pre-egg laying and early incubation)							
Update Nesting Status **April 1 – June 15** (late incubation and nestlings)	5/29	Not found					
	6/25	Not found					
Determine Productivity **June 15 – July 31** (late nestling and fledging)							

SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000)

BALD EAGLE NEST MONITORING FORM

2019

I. ID

Territory Name: Fernan West Territory/Nest Number: 0710340103 new Observer Initial: LS Reviewer Initial: RJ

II. SURVEY SUMMARY

Survey Code

☐ (1) Not Checked ☐ (2) Not Located ☐ (3) No Initial Occupancy Determination ☐ (4) No Nesting Status Update ☐ (5) Productivity Not Determined
☒ (6) Complete Survey, Productivity Determined

Status Code

☐ (1) Unoccupied ☐ (2) Other Species ☐ (3) Single Adult ☒ (4) Occupied ☒ (5) Active ☐ (6) Unsuccessful ☒ (7) Successful

Nest Condition Code

☒ (1) New N3 ☒ (2) Good N1 ☐ (3) Fair ☐ (4) Poor ☐ (5) Nest Destroyed: _____

Nesting Determination

☐ (1) Status Unknown ☐ (2) Not Active ☐ (3) Nest Abandoned ☐ (4) Active, Not Successful ☐ (5) Active, Success Unknown ☒ (6) Successful

Number of Fledglings: 1 young (at or near fledging age)

III. SURVEY RESULTS

OBSERVATION PERIOD	Date Checked	Nest Condition	Nesting Activity (construction etc.)	Adult Presence / Behavior	Incubation/Brooding Posture	Number of Young	Stage of Young
Initial Determination of Occupancy **February 1 – March 31** (pre-egg laying and early incubation)	3/6/19	fair N1	∅	∅	∅	/	/
	3/19/19	new N3	construction N3	both	NA	NA	NA
	3/31/19	New N3	"	both, mating	"	"	"
	4/19/19	"	complete	both	inc	"	"
Update Nesting Status **April 1 – June 15** (late incubation and nestlings)	5/2/19	"	"	"	ins	"	"
	5/14/19	"	"	"	inc	unk	hatchlings?
	5/27/19	"	"	both	brd	unk	1A hatchlings
	6/13/19	good	"	"	brd	1	1B nestling
Determine Productivity **June 15 – July 31** (late nestling and fledging)	6/25/19	"	"	"	per	2?	2? nestling
	7/8/19	"	"	both	per	1	3c
	7/22/19	"	"	both	per	1	3d

7/9 nestling – 3c = perching on edge of nest

SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000)
BALD EAGLE NEST MONITORING FORM
2019

I. ID

Territory Name: Fernan East Territory/Nest Number: 07103402 Observer Initial: LS Reviewer Initial: RS

II. SURVEY SUMMARY

Survey Code
☐ (1) Not Checked ☐ (2) Not Located ☐ (3) No Initial Occupancy Determination ☐ (4) No Nesting Status Update ☐ (5) Productivity Not Determined
☑ (6) Complete Survey, Productivity Determined

Status Code
☐ (1) Unoccupied ☐ (2) Other Species ☐ (3) Single Adult ☒ (4) Occupied ☒ (5) Active ☒ (6) Unsuccessful ☐ (7) Successful

Nest Condition Code
☐ (1) New ☒ (2) Good ☐ (3) Fair ☐ (4) Poor ☒ (5) Nest Destroyed: collapsed by 5/27/19

Nesting Determination
☐ (1) Status Unknown ☐ (2) Not Active ☐ (3) Nest Abandoned ☒ (4) Active, Not Successful ☐ (5) Active, Success Unknown ☐ (6) Successful

Number of Fledglings: 0 young (at or near fledging age)

III. SURVEY RESULTS

OBSERVATION PERIOD	Date Checked	Nest Condition	Nesting Activity (construction etc.)	Adult Presence / Behavior	Incubation/Brooding Posture	Number of Young	Stage of Young
Initial Determination of Occupancy **February 1 – March 31** (pre-egg laying and early incubation)	3/6/19	good	construction	2AD, PER + NR at nest + in nest	N/A		
Update Nesting Status **April 1 – June 15** (late incubation and nestlings)	5/27/19	collapsed	none	2AD	N/A		
	Both AD perching in nesting territory - neither obs. at nest or potential nest obs. 75min. 0910 - 1025		would have if nesting				
Determine Productivity **June 15 – July 31** (late nestling and fledging)	7/8/19	collapsed	none	1 AD, PER below N location on ridge	N/A		

No disturbances or habitat alterations observed.
Only nest collapse

SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000)
BALD EAGLE NEST MONITORING FORM
20 19

I. ID

Territory Name: Hepton W Territory/Nest Number: 101-07 Observer Initial: RS Reviewer Initial: LS

II. SURVEY SUMMARY

Survey Code
☐ (1) Not Checked ☐ (2) Not Located ☐ (3) No Initial Occupancy Determination ☐ (4) No Nesting Status Update ☐ (5) Productivity Not Determined
☑ (6) Complete Survey, Productivity Determined

Status Code
☐ (1) Unoccupied ☐ (2) Other Species ☐ (3) Single Adult ☑ (4) Occupied ☑ (5) Active ☐ (6) Unsuccessful ☑ (7) Successful

Nest Condition Code
☐ (1) New ☑ (2) Good ☐ (3) Fair ☐ (4) Poor ☐ (5) Nest Destroyed: _____

Nesting Determination
☐ (1) Status Unknown ☐ (2) Not Active ☐ (3) Nest Abandoned ☐ (4) Active, Not Successful ☐ (5) Active, Success Unknown ☑ (6) Successful

Number of Fledglings: 2 young (at or near fledging age)

III. SURVEY RESULTS

Nest is in cottonwood snag ~35' tall.

OBSERVATION PERIOD	Date Checked	Nest Condition	Nesting Activity (construction etc.)	Adult Presence / Behavior	Incubation/Brooding Posture	Number of Young	Stage of Young
Initial Determination of Occupancy **February 1 – March 31** (pre-egg laying and early incubation)							
Update Nesting Status **April 1 – June 15** (late incubation and nestlings)	6/12/19	2		1		2	3a
		Adult flew to nest tree as we approached by boat & from the sun.		~~1 perched on nest~~	shielded nestling	w/ her	wings
						~~0~~	
	6/25/19			1 - perched on nest		0	
Determine Productivity **June 15 – July 31** (late nestling and fledging)							
	7/16/19	2		0		2	
	7/23/19	2		1 at nest		2	

SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000)

BALD EAGLE NEST MONITORING FORM

20 19

I. ID

Territory Name: Hepton Lake (East) Territory/Nest Number: 101-02 Observer Initial: RS Reviewer Initial: LS

II. SURVEY SUMMARY

Survey Code

☐ (1) Not Checked ☐ (2) Not Located ☐ (3) No Initial Occupancy Determination ☐ (4) No Nesting Status Update ☐ (5) Productivity Not Determined
☑ (6) Complete Survey, Productivity Determined

Status Code

☐ (1) Unoccupied ☐ (2) Other Species ☐ (3) Single Adult ☑ (4) Occupied ☑ (5) Active ☐ (6) Unsuccessful ☑ (7) Successful

Nest Condition Code

☐ (1) New ☑ (2) Good ☐ (3) Fair ☐ (4) Poor ☐ (5) Nest Destroyed: _____

Nesting Determination

☐ (1) Status Unknown ☐ (2) Not Active ☐ (3) Nest Abandoned ☐ (4) Active, Not Successful ☐ (5) Active, Success Unknown ☑ (6) Successful

Number of Fledglings: ≥ 1 young (at or near fledging age)

III. SURVEY RESULTS

OBSERVATION PERIOD	Date Checked	Nest Condition	Nesting Activity (construction etc.)	Adult Presence / Behavior	Incubation/Brooding Posture	Number of Young	Stage of Young
Initial Determination of Occupancy **February 1 – March 31** (pre-egg laying and early incubation)	5/28/19	2	Both adults perched w/in 100m of nest.	Nest in tall cottonwood w/ thick canopy;			
	~~dor~~tough to see nest. Couldn't see ~~juveniles~~ nestlings. Both adults circled & vocalized while						
	I searched for nest. Based on that, highly likely nestling(s) present. Observe from Hwy 3/						
	Century 21 pull out area.						
Update Nesting Status **April 1 – June 15** (late incubation and nestlings)	6/25/19	2	No adults observed.	At least 1 ~~juvenile~~ nestling was in the nest calling.			
Determine Productivity **June 15 – July 31** (late nestling and fledging)	7/16/19	2		0		0	

SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000)
BALD EAGLE NEST MONITORING FORM
20 19

I. ID

Territory Name: Heyburn South Territory/Nest Number: OSI 105702 Observer Initial: LS Reviewer Initial: LS

II. SURVEY SUMMARY

Survey Code
☐ (1) Not Checked ☐ (2) Not Located ☐ (3) No Initial Occupancy Determination ☐ (4) No Nesting Status Update ☐ (5) Productivity Not Determined
☒ (6) Complete Survey, Productivity Determined

Status Code
☐ (1) Unoccupied ☐ (2) Other Species ☐ (3) Single Adult ☒ (4) Occupied ☒ (5) Active ☐ (6) Unsuccessful ☐ (7) Successful

Nest Condition Code
☐ (1) New ☒ (2) Good ☐ (3) Fair ☐ (4) Poor ☐ (5) Nest Destroyed: _____

Nesting Determination
☐ (1) Status Unknown ☐ (2) Not Active ☐ (3) Nest Abandoned ☐ (4) Active, Not Successful ☐ (5) Active, Success Unknown ☐ (6) Successful

Number of Fledglings: _____ young (at or near fledging age)

III. SURVEY RESULTS

OBSERVATION PERIOD	Date Checked	Nest Condition	Nesting Activity (construction etc.)	Adult Presence / Behavior	Incubation/Brooding Posture	Number of Young	Stage of Young
Initial Determination of Occupancy **February 1 – March 31** (pre-egg laying and early incubation)	3/5/19	snow covered		only 1 AD	—		
	3/20/19	Good	none	both AD per a nest	maybe		
	4/1/19	good		both	inc	unk	
Update Nesting Status **April 1 – June 15** (late incubation and nestlings)	4/20/19	"		both	inc	"	
	5/3/19	"		"	inc	"	
	5/13/19	"		"	inc	"	
Determine Productivity **June 15 – July 31** (late nestling and fledging)							

SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000)
BALD EAGLE NEST MONITORING FORM
20 19

I. ID

Territory Name: Heyburn S. Territory/Nest Number: 57-02 Observer Initial: RS Reviewer Initial: LS

II. SURVEY SUMMARY

Survey Code
☐ (1) Not Checked ☐ (2) Not Located ☐ (3) No Initial Occupancy Determination ☐ (4) No Nesting Status Update ☐ (5) Productivity Not Determined
☑ (6) Complete Survey, Productivity Determined

Status Code
☐ (1) Unoccupied ☐ (2) Other Species ☐ (3) Single Adult ☑ (4) Occupied ☑ (5) Active ☐ (6) Unsuccessful ☑ (7) Successful

Nest Condition Code
☐ (1) New ☑ (2) Good ☐ (3) Fair ☐ (4) Poor ☐ (5) Nest Destroyed: _____

Nesting Determination
☐ (1) Status Unknown ☐ (2) Not Active ☐ (3) Nest Abandoned ☐ (4) Active, Not Successful ☐ (5) Active, Success Unknown ☑ (6) Successful

Number of Fledglings: 2 young (at or near fledging age)

III. SURVEY RESULTS

OBSERVATION PERIOD	Date Checked	Nest Condition	Nesting Activity (construction etc.)	Adult Presence / Behavior	Incubation/Brooding Posture	Number of Young	Stage of Young
Initial Determination of Occupancy **February 1 – March 31** (pre-egg laying and early incubation)	5/28/19		1 adult B.E. on nest at sunset			✓	
Update Nesting Status **April 1 – June 15** (late incubation and nestlings)	6/10/19	2	♀ was at nest & male came & went during Time-Budget obs			≥ 1	
Determine Productivity **June 15 – July 31** (late nestling and fledging)	6/25/19	2	2 adults came & went during Time-Budget obs.			2	3c
	7/16/19	2		2 Adults - 1 perched on nest for 1 obs. flying & unsuccessful hunt		2	3d

Page 1 of 1

SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000)
BALD EAGLE NEST MONITORING FORM
20 19

I. ID

Territory Name: Heyburn Park N Territory/Nest Number: 057-01 Observer Initial: RS Reviewer Initial: LS

II. SURVEY SUMMARY

Survey Code
☐ (1) Not Checked ☐ (2) Not Located ☐ (3) No Initial Occupancy Determination ☐ (4) No Nesting Status Update ☐ (5) Productivity Not Determined
☑ (6) Complete Survey, Productivity Determined

Status Code
☐ (1) Unoccupied ☐ (2) Other Species ☐ (3) Single Adult ☑ (4) Occupied ☑ (5) Active ☐ (6) Unsuccessful ☑ (7) Successful

Nest Condition Code
☐ (1) New ☑ (2) Good ☐ (3) Fair ☐ (4) Poor ☐ (5) Nest Destroyed: _____

Nesting Determination
☐ (1) Status Unknown ☐ (2) Not Active ☐ (3) Nest Abandoned ☐ (4) Active, Not Successful ☐ (5) Active, Success Unknown ☑ (6) Successful

Number of Fledglings: 1 young (at or near fledging age)

III. SURVEY RESULTS

OBSERVATION PERIOD	Date Checked	Nest Condition	Nesting Activity (construction etc.)	Adult Presence / Behavior	Incubation/Brooding Posture	Number of Young	Stage of Young
Initial Determination of Occupancy **February 1 – March 31** (pre-egg laying and early incubation)							
Update Nesting Status **April 1 – June 15** (late incubation and nestlings)	6/12/19	2		Perched on nest edge	na	≥1	
	7/1/19	2		Nestling on rim of nest flapping wings. No adults present.		1	
Determine Productivity **June 15 – July 31** (late nestling and fledging)							
	7/23/19	2		1		1	3d
					Fledgling perched on limb in nest tree.		

Nest is in different location than coordinates indicate. It is in a tall Ponderosa Pine on the ridgeline with a few branches of tree crown (+ needles) above nest. Fill out new nest form

SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000)
BALD EAGLE NEST MONITORING FORM
2019

I. ID

Territory Name: Killarney Lake Territory/Nest Number: 017-02 Observer Initial: RS Reviewer Initial: LS

II. SURVEY SUMMARY

Survey Code
☒ (1) Not Checked ☐ (2) Not Located ☐ (3) No Initial Occupancy Determination ☐ (4) No Nesting Status Update ☐ (5) Productivity Not Determined
☒ (6) Complete Survey, Productivity Determined

Status Code
☐ (1) Unoccupied ☐ (2) Other Species ☐ (3) Single Adult ☑ (4) Occupied ☑ (5) Active ☐ (6) Unsuccessful ☑ (7) Successful

Nest Condition Code
☐ (1) New ☑ (2) Good ☐ (3) Fair ☐ (4) Poor ☐ (5) Nest Destroyed: _____

Nesting Determination
☐ (1) Status Unknown ☐ (2) Not Active ☐ (3) Nest Abandoned ☐ (4) Active, Not Successful ☐ (5) Active, Success Unknown ☑ (6) Successful

Number of Fledglings: 3 young (at or near fledging age)

III. SURVEY RESULTS

OBSERVATION PERIOD	Date Checked	Nest Condition	Nesting Activity (construction etc.)	Adult Presence / Behavior	Incubation/Brooding Posture	Number of Young	Stage of Young
Initial Determination of Occupancy **February 1 – March 31** (pre-egg laying and early incubation)							
Update Nesting Status **April 1 – June 15** (late incubation and nestlings)	5/28/19			Not observed		3	7.5-9.5 weeks (3B or 3C)
	Park along Killarney Lake Rd. & walk down 2-track ~ 400 yrds to where it takes a left bend & then walk to river. Nest is in cottonwood further the S. along river bank.						
Determine Productivity **June 15 – July 31** (late nestling and fledging)	6/25/19	2	Adult eagle called as I approached nest from > 300m away. Saw ≥2 fledglings flying around prior to getting to nest. Fledglings are strong flyers already.				

SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000)
BALD EAGLE NEST MONITORING FORM
20 19

I. ID

Territory Name: Mica Bay Territory/Nest Number: 054-01 Observer Initial: RS Reviewer Initial: LS

II. SURVEY SUMMARY

Survey Code
☐ (1) Not Checked ☐ (2) Not Located ☐ (3) No Initial Occupancy Determination ☐ (4) No Nesting Status Update ☐ (5) Productivity Not Determined
☑ (6) Complete Survey, Productivity Determined

Status Code
☐ (1) Unoccupied ☐ (2) Other Species ☐ (3) Single Adult ☑ (4) Occupied ☑ (5) Active ☐ (6) Unsuccessful ☑ (7) Successful

Nest Condition Code
☐ (1) New ☑ (2) Good ☐ (3) Fair ☐ (4) Poor ☐ (5) Nest Destroyed: _____

Nesting Determination
☐ (1) Status Unknown ☐ (2) Not Active ☐ (3) Nest Abandoned ☐ (4) Active, Not Successful ☐ (5) Active, Success Unknown ☑ (6) Successful

Number of Fledglings: 1 young (at or near fledging age)

III. SURVEY RESULTS

OBSERVATION PERIOD	Date Checked	Nest Condition	Nesting Activity (construction etc.)	Adult Presence / Behavior	Incubation/Brooding Posture	Number of Young	Stage of Young
Initial Determination of Occupancy **February 1 – March 31** (pre-egg laying and early incubation)							
Update Nesting Status **April 1 – June 15** (late incubation and nestlings)	6/11/19	2	na	1 Adult perched on	(n/a)	≥ 1	Flapping its wings
				nest rim + few away	as we arrived		
	7/1/19	2		1 - Perched 25m		1	3d
Determine Productivity **June 15 – July 31** (late nestling and fledging)				from nest tree.			
	7/22/19	2		2 Adults		0	
				Perched ~200 ft ~100m from nest.			

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SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000)
BALD EAGLE NEST MONITORING FORM
20 19

I. ID

Territory Name: Post Falls Dam Island Territory/Nest Number: 080-01 Observer Initial: RS Reviewer Initial: LS

II. SURVEY SUMMARY

Survey Code
☐ (1) Not Checked ☐ (2) Not Located ☑ (3) No Initial Occupancy Determination ☐ (4) No Nesting Status Update ☐ (5) Productivity Not Determined
☐ (6) Complete Survey, Productivity Determined

Status Code
☑ (1) Unoccupied ☐ (2) Other Species ☐ (3) Single Adult ☐ (4) Occupied ☐ (5) Active ☐ (6) Unsuccessful ☐ (7) Successful

Nest Condition Code
☐ (1) New ☐ (2) Good ☐ (3) Fair ☐ (4) Poor ☑ (5) Nest Destroyed: Not present

Nesting Determination
☑ (1) Status Unknown ☐ (2) Not Active ☐ (3) Nest Abandoned ☐ (4) Active, Not Successful ☐ (5) Active, Success Unknown ☐ (6) Successful

Number of Fledglings: 0 young (at or near fledging age)

III. SURVEY RESULTS

OBSERVATION PERIOD	Date Checked	Nest Condition	Nesting Activity (construction etc.)	Adult Presence / Behavior	Incubation/Brooding Posture	Number of Young	Stage of Young
Initial Determination of Occupancy **February 1 – March 31** (pre-egg laying and early incubation)							
Update Nesting Status **April 1 – June 15** (late incubation and nestlings)							
Determine Productivity **June 15 – July 31** (late nestling and fledging)	7/2/19	5	No nest detected	1 adult perched in nest area. Called as it flew away & landed ~ 150 yard to west. There was lots of mutting under		0	

7/16/19 No nest (1) Perched in same tree I flushed her from on 7/2/19. 0

SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000)
BALD EAGLE NEST MONITORING FORM
20 19

I. ID

Territory Name: RAINY HILL Territory/Nest Number: 074-02 Observer Initial: RS Reviewer Initial: LS

II. SURVEY SUMMARY

Survey Code
☐ (1) Not Checked ☐ (2) Not Located ☐ (3) No Initial Occupancy Determination ☐ (4) No Nesting Status Update ☐ (5) Productivity Not Determined
☑ (6) Complete Survey, Productivity Determined

Status Code
☐ (1) Unoccupied ☐ (2) Other Species ☐ (3) Single Adult ☑ (4) Occupied ☑ (5) Active ☐ (6) Unsuccessful ☑ (7) Successful

Nest Condition Code
☐ (1) New ☑ (2) Good ☐ (3) Fair ☐ (4) Poor ☐ (5) Nest Destroyed: _____

Nesting Determination
☐ (1) Status Unknown ☐ (2) Not Active ☐ (3) Nest Abandoned ☐ (4) Active, Not Successful ☐ (5) Active, Success Unknown ☑ (6) Successful

Number of Fledglings: 2 young (at or near fledging age) ?

III. SURVEY RESULTS

OBSERVATION PERIOD	Date Checked	Nest Condition	Nesting Activity (construction etc.)	Adult Presence / Behavior	Incubation/Brooding Posture	Number of Young	Stage of Young
Initial Determination of Occupancy **February 1 – March 31** (pre-egg laying and early incubation)							
Update Nesting Status **April 1 – June 15** (late incubation and nestlings)	6/11/19	2	No adults observed.	n/a	n/a	2	3b/c
		In cottonwood					
	7/1/19	Nest is seen	from upstream. I could hear what I thought was the			0	
Determine Productivity **June 15 – July 31** (late nestling and fledging)			fledgling(s) in the	nest stand calling	but no visual.		
	7/22/19	2	0			0	

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SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000)
BALD EAGLE NEST MONITORING FORM
20 19 New Nest

I. ID

Territory Name: Rose Lake Territory/Nest Number: 019-02 Observer Initial: RS Reviewer Initial: LS

II. SURVEY SUMMARY

Survey Code
☐ (1) Not Checked ☐ (2) Not Located ☐ (3) No Initial Occupancy Determination ☐ (4) No Nesting Status Update ☑ (5) Productivity Not Determined
☐ (6) Complete Survey, Productivity Determined

Status Code
☐ (1) Unoccupied ☐ (2) Other Species ☑ (3) Single Adult ☑ (4) Occupied ☑ (5) Active ☐ (6) Unsuccessful ☑ (7) Successful

Nest Condition Code
☐ (1) New ☑ (2) Good ☐ (3) Fair ☐ (4) Poor ☐ (5) Nest Destroyed: _____

Nesting Determination
☐ (1) Status Unknown ☐ (2) Not Active ☐ (3) Nest Abandoned ☐ (4) Active, Not Successful ☐ (5) Active, Success Unknown ☑ (6) Successful

Number of Fledglings: ≥ 1 young (at or near fledging age)

III. SURVEY RESULTS Difficult to see due to rain + clouds. ~~Not a positive ID~~ area

OBSERVATION PERIOD	Date Checked	Nest Condition	Nesting Activity (construction etc.)	Adult Presence / Behavior	Incubation/Brooding Posture	Number of Young	Stage of Young
Initial Determination of Occupancy **February 1 – March 31** (pre-egg laying and early incubation)	5/24/19	Poor visibility	~~Nothing~~ Rainy + cloudy	?	?		
	5/28/19	Not observed	No B.E. seen	10:50 - 11:20	NA	NA	NA
		Need advice on best location to observe/detect nest from. I was a west side of lake boat ramp.					
Update Nesting Status **April 1 – June 15** (late incubation and nestlings)	6/26/19	2	Nest is a new nest	from last years	location. It's in	a cottonwood (live)	
			along marshy-edge of Rose Lake,	☒ One adult perched in nest			
			tree + I saw movement in the	nest but couldn't count individuals.			
			Observation was after sunset from my kayak.				
Determine Productivity **June 15 – July 31** (late nestling and fledging)							
	7/16/19	2		⊘		⊘	

SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000)
BALD EAGLE NEST MONITORING FORM
20 19

I. ID

Territory Name: St. Joe Benewah Territory/Nest Number: 106-01 Observer Initial: RS Reviewer Initial: LS

II. SURVEY SUMMARY

Survey Code
☐ (1) Not Checked ☐ (2) Not Located ☑ (3) No Initial Occupancy Determination ☐ (4) No Nesting Status Update ☐ (5) Productivity Not Determined
☑ (6) Complete Survey, Productivity Determined

Status Code
☑ (1) Unoccupied ☐ (2) Other Species ☐ (3) Single Adult ☐ (4) Occupied ☐ (5) Active ☐ (6) Unsuccessful ☐ (7) Successful

Nest Condition Code
☐ (1) New ☐ (2) Good ☑ (3) Fair ☐ (4) Poor ☐ (5) Nest Destroyed: _____

Nesting Determination
☐ (1) Status Unknown ☑ (2) Not Active ☐ (3) Nest Abandoned ☐ (4) Active, Not Successful ☐ (5) Active, Success Unknown ☐ (6) Successful

Number of Fledglings: 0 young (at or near fledging age)

III. SURVEY RESULTS

OBSERVATION PERIOD	Date Checked	Nest Condition	Nesting Activity (construction etc.)	Adult Presence / Behavior	Incubation/Brooding Posture	Number of Young	Stage of Young
Initial Determination of Occupancy **February 1 – March 31** (pre-egg laying and early incubation)							
Update Nesting Status **April 1 – June 15** (late incubation and nestlings)	6/12/19	2/3		None observed but nest about 200 m upstream	active osprey		
	7/1/19	3		0		0	
Determine Productivity **June 15 – July 31** (late nestling and fledging)		We walked under nest + no fresh sign of eagle use.					
	7/23/19	3		0		0	

SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000)
BALD EAGLE NEST MONITORING FORM
2019

I. ID

Territory Name: St. Maries Territory/Nest Number: 043-01 Observer Initial: RS Reviewer Initial: LS

II. SURVEY SUMMARY

Survey Code
☐ (1) Not Checked ☐ (2) Not Located ☐ (3) No Initial Occupancy Determination ☐ (4) No Nesting Status Update ☐ (5) Productivity Not Determined
☑ (6) Complete Survey, Productivity Determined

Status Code
☐ (1) Unoccupied ☐ (2) Other Species ☐ (3) Single Adult ☑ (4) Occupied ☑ (5) Active ☐ (6) Unsuccessful ☑ (7) Successful

Nest Condition Code
☐ (1) New ☑ (2) Good ☐ (3) Fair ☐ (4) Poor ☐ (5) Nest Destroyed: _____

Nesting Determination
☐ (1) Status Unknown ☐ (2) Not Active ☐ (3) Nest Abandoned ☐ (4) Active, Not Successful ☐ (5) Active, Success Unknown ☑ (6) Successful

Number of Fledglings: 1 young (at or near fledging age)

III. SURVEY RESULTS

Nest is in a live cottonwood

OBSERVATION PERIOD	Date Checked	Nest Condition	Nesting Activity (construction etc.)	Adult Presence / Behavior	Incubation/Brooding Posture	Number of Young	Stage of Young
Initial Determination of Occupancy **February 1 – March 31** (pre-egg laying and early incubation)	5/28/19	No nest observed	Talked to lady that live adjucent to St. Maries River Sportsman Access + she said BE nest fell down a few weeks ago but wasn't used this year, but was last year. She saw 2 BE flying today while kayaking further in from Hwy 3.				
Update Nesting Status **April 1 – June 15** (late incubation and nestlings)	6/26/19	2	As I approached by kayak ~ 300m from nest, 2 adults flew by to the East. Saw a nestling head barely poking out	above nest.		1	?
Determine Productivity **June 15 – July 31** (late nestling and fledging)	7/16/19	2		1 Flying Nestling was perched on rim of nest		1	3d

SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000)
BALD EAGLE NEST MONITORING FORM
20 19

I. ID

Territory Name: Turner Bay Territory/Nest Number: 066-04 Observer Initial: RS Reviewer Initial: LS

II. SURVEY SUMMARY

Survey Code
☐ (1) Not Checked ☐ (2) Not Located ☐ (3) No Initial Occupancy Determination ☐ (4) No Nesting Status Update ☐ (5) Productivity Not Determined
☑ (6) Complete Survey, Productivity Determined

Status Code
☐ (1) Unoccupied ☐ (2) Other Species ☐ (3) Single Adult ☑ (4) Occupied ☑ (5) Active ☐ (6) Unsuccessful ☑ (7) Successful

Nest Condition Code
☐ (1) New ☑ (2) Good ☐ (3) Fair ☐ (4) Poor ☐ (5) Nest Destroyed: _____

Nesting Determination
☐ (1) Status Unknown ☐ (2) Not Active ☐ (3) Nest Abandoned ☐ (4) Active, Not Successful ☐ (5) Active, Success Unknown ☑ (6) Successful

Number of Fledglings: 2 young (at or near fledging age)

III. SURVEY RESULTS

OBSERVATION PERIOD	Date Checked	Nest Condition	Nesting Activity (construction etc.)	Adult Presence / Behavior	Incubation/Brooding Posture	Number of Young	Stage of Young
Initial Determination of Occupancy **February 1 – March 31** (pre-egg laying and early incubation)							
Update Nesting Status **April 1 – June 15** (late incubation and nestlings)	6/11/19	2		Not present	X	2	3c
	7/1/19	2		No adults present		2	3d
Determine Productivity **June 15 – July 31** (late nestling and fledging)	7/22/19	2		0		≥ 1	
					Saw 1 nestling perched on limb above nest. It was calling & another bird was calling about 100-200m away. Couldn't get visual on 2nd eagle.		

Territory/Nest Number: _____

IV. SUPPLEMENTAL NESTING INFORMATION (If known)

Date of adult arrival:		**Date of adult dispersal:**	
Date of egg laying:		**Clutch size:**	
Date of hatching:		**Date/Number of fledglings at dispersal:**	
Date of fledging:		**Banding data:**	

V. NARRATIVE INFORMATION

Nesting attempt failed (Yes/No), date/nesting period of failure: _____

Reason for failure: _____

_____

Nest Abandoned (Yes/No), date: _____

Reason for abandonment: _____

_____

Disturbing Activities (record type, duration, and proximity to nest) Nest is in ponderosa pine ~ 100' from 2 houses.

_____

_____

Habitat Alterations (record type, extent, and proximity to nest) _____

_____

_____

Ongoing Disturbances (record type, extent, and proximity to nest) _____

_____

_____

Prepared by: _____ **Date:** _____

Reviewed by: _____ **Date:** _____

Territory/Nest Number: Turner Bay

IV. SUPPLEMENTAL NESTING INFORMATION (If known)

Date of adult arrival:		**Date of adult dispersal:**	
Date of egg laying:		**Clutch size:**	
Date of hatching:		**Date/Number of fledglings at dispersal:**	
Date of fledging:		**Banding data:**	

V. NARRATIVE INFORMATION

Nesting attempt failed (Yes/No), date/nesting period of failure: _____

Reason for failure: _____

_____

Nest Abandoned (Yes/No), date: _____

Reason for abandonment: _____

_____

Disturbing Activities (record type, duration, and proximity to nest) Nest is in ponderosa pine ~ 100' from 2 houses.

_____

_____

Habitat Alterations (record type, extent, and proximity to nest) _____

_____

_____

Ongoing Disturbances (record type, extent, and proximity to nest) _____

_____

_____

Prepared by: _____ **Date:** _____

Reviewed by: _____ **Date:** _____

SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000)
BALD EAGLE NEST MONITORING FORM
2019

I. ID

Territory Name: Turtle Lake Territory/Nest Number: 24-03 Observer Initial: RS Reviewer Initial: LS

II. SURVEY SUMMARY

Survey Code
☐ (1) Not Checked ☐ (2) Not Located ☐ (3) No Initial Occupancy Determination ☐ (4) No Nesting Status Update ☐ (5) Productivity Not Determined
☑ (6) Complete Survey, Productivity Determined

Status Code
☐ (1) Unoccupied ☐ (2) Other Species ☐ (3) Single Adult ☑ (4) Occupied ☑ (5) Active ☐ (6) Unsuccessful ☐ (7) Successful

Nest Condition Code
☐ (1) New ☑ (2) Good ☑ (3) Fair ☐ (4) Poor ☐ (5) Nest Destroyed: _____

Nesting Determination
☐ (1) Status Unknown ☐ (2) Not Active ☐ (3) Nest Abandoned ☑ (4) Active, Not Successful ☐ (5) Active, Success Unknown ☐ (6) Successful

Number of Fledglings: 0 young (at or near fledging age)

III. SURVEY RESULTS

OBSERVATION PERIOD	Date Checked	Nest Condition	Nesting Activity (construction etc.)	Adult Presence / Behavior	Incubation/Brooding Posture	Number of Young	Stage of Young
Initial Determination of Occupancy **February 1 – March 31** (pre-egg laying and early incubation)	Could n't	see a nest	from St. Joe River Rd. Should I access from Railroad Grade Rd.? (yes)				
			(pull out w/view of nest area)				
	I drove	Railroad	Grade Rd + didn't observe nest. This is road to look from though.				
	5/28/19	2		1 Adult		1	3b
Update Nesting Status **April 1 – June 15** (late incubation and nestlings)							
					(+ perched)		
Determine Productivity **June 15 – July 31** (late nestling and fledging)	6/25/19	3	Adult flew into tree ~ 50m from nest tree after I'd			0	
			been watching the nest for ~10-15 minutes. Never				
			saw any movement in the nest.				
	7/16/19			0		0	

5/28/19 { Mike + Jonny Fish - Drive way off of R.R. Grade
B.E. Adult perched on limb above nest. 1 fledgling in nest, 3b or 3c. Nest is in top of live P. pine on tallest tree on hill.

Territory/Nest Number: Turtle Lake

IV. SUPPLEMENTAL NESTING INFORMATION (If known)

Date of adult arrival:		Date of adult dispersal:	
Date of egg laying:		Clutch size:	
Date of hatching:		Date/Number of fledglings at dispersal:	
Date of fledging:		Banding data:	

V. NARRATIVE INFORMATION

Nesting attempt failed (Yes/No), date/nesting period of failure: between 5/28/ and 6/25 nest failed

Reason for failure: not determined

Nest Abandoned (Yes/No), date:

Reason for abandonment:

Disturbing Activities (record type, duration, and proximity to nest) residences within 300 m - potential

Habitat Alterations (record type, extent, and proximity to nest) none

Ongoing Disturbances (record type, extent, and proximity to nest) highway 300m, dirt road 100m

Prepared by: Date:

Reviewed by: Date:

Territory/Nest Number: Turtle Lake

IV. SUPPLEMENTAL NESTING INFORMATION (If known)

Date of adult arrival:		**Date of adult dispersal:**	
Date of egg laying:		**Clutch size:**	
Date of hatching:		**Date/Number of fledglings at dispersal:**	
Date of fledging:		**Banding data:**	

V. NARRATIVE INFORMATION

Nesting attempt failed (Yes/No), date/nesting period of failure: between 5/28/ and 6/25 nest failed

Reason for failure: not determined

Nest Abandoned (Yes/No), date:

Reason for abandonment:

Disturbing Activities (record type, duration, and proximity to nest) residences within 300 m - potential

Habitat Alterations (record type, extent, and proximity to nest) none

Ongoing Disturbances (record type, extent, and proximity to nest) highway 300m, dirt road 100m

Prepared by: **Date:**

Reviewed by: **Date:**

SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000)
BALD EAGLE NEST MONITORING FORM
20 19

I. ID

Territory Name: Upper Spokane River Territory/Nest Number: 07I-10202 Observer Initial: LS Reviewer Initial: RS

II. SURVEY SUMMARY

Survey Code
☐ (1) Not Checked ☐ (2) Not Located ☐ (3) No Initial Occupancy Determination ☐ (4) No Nesting Status Update ☐ (5) Productivity Not Determined
☒ (6) Complete Survey, Productivity Determined

Status Code
☐ (1) Unoccupied ☐ (2) Other Species ☐ (3) Single Adult ☒ (4) Occupied ☒ (5) Active ☒ (6) Unsuccessful ☐ (7) Successful

Nest Condition Code
☐ (1) New ☒ (2) Good ☒ (3) Fair ☐ (4) Poor ☒ (5) Nest Destroyed: 5/28/19

Nesting Determination
☐ (1) Status Unknown ☐ (2) Not Active ☒ (3) Nest Abandoned ☒ (4) Active, Not Successful ☐ (5) Active, Success Unknown ☐ (6) Successful

Number of Fledglings: 0 young (at or near fledging age)

III. SURVEY RESULTS

OBSERVATION PERIOD	Date Checked	Nest Condition	Nesting Activity (construction etc.)	Adult Presence / Behavior	Incubation/Brooding Posture	Number of Young	Stage of Young
Initial Determination of Occupancy **February 1 – March 31** (pre-egg laying and early incubation)	3/31/19	Good	nest repair	both	inc	/	/
	4/9/19	fair - bottom loose		both	inc	/	/
Update Nesting Status **April 1 – June 15** (late incubation and nestlings)	4/30/19	fair		both	inc		
	5/14/19	"		"	per	UNK	hatching? IA
	5/28/19	collapsed	AD w/grass?	both upstream	none	/	failed
Determine Productivity **June 15 – July 31** (late nestling and fledging)	6/14/19	"	none	only ♀	"		
	6/27/19	"	"	"	"		
	7/9/19	"	"	only 1 AD	"		
	7/23/19	"	"	only 1 AD	"		

No disturbances or habitat alterations observed. Nest on hillslope ridge. Ongoing residential activity on opposite shore has had no previously observed disturbance to BAEAs.

SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000)
BALD EAGLE NEST MONITORING FORM
20 19

I. ID

Territory Name: Windy Bay Territory/Nest Number: 001-03 Observer Initial: RS Reviewer Initial: LS

II. SURVEY SUMMARY

Survey Code
☐ (1) Not Checked ☑ (2) Not Located ☑ (3) No Initial Occupancy Determination ☐ (4) No Nesting Status Update ☐ (5) Productivity Not Determined
☐ (6) Complete Survey, Productivity Determined

Status Code
☑ (1) Unoccupied ☐ (2) Other Species ☐ (3) Single Adult ☐ (4) Occupied ☐ (5) Active ☐ (6) Unsuccessful ☐ (7) Successful

Nest Condition Code
☐ (1) New ☐ (2) Good ☐ (3) Fair ☐ (4) Poor ☐ (5) Nest Destroyed: Nest not found

Nesting Determination
☐ (1) Status Unknown ☑ (2) Not Active ☐ (3) Nest Abandoned ☐ (4) Active, Not Successful ☐ (5) Active, Success Unknown ☐ (6) Successful

Number of Fledglings: 0 young (at or near fledging age)

III. SURVEY RESULTS

Supposed to be the most interior nest location in bay. No nest found

OBSERVATION PERIOD	Date Checked	Nest Condition	Nesting Activity (construction etc.)	Adult Presence / Behavior	Incubation/Brooding Posture	Number of Young	Stage of Young
Initial Determination of Occupancy **February 1 – March 31** (pre-egg laying and early incubation)							
Update Nesting Status **April 1 – June 15** (late incubation and nestlings)	6/12/19	No nest found	none (*)	n/a	n/a	n/a	
	We did find an alternate nest about 200m to E. Nest is partially collapsed						
			* Unless Windy Bay nest was inaccurately mapped				
Determine Productivity **June 15 – July 31** (late nestling and fledging)	7/1/19	Not found	0			0	
	7/22/19	Not found	0			0	

SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000)
BALD EAGLE NEST MONITORING FORM
2019

I. ID

Territory Name: WINDY BAY Territory/Nest Number: [redacted] Old nest Observer Initial: RS Reviewer Initial: LS

II. SURVEY SUMMARY

47.472330, -116.878073

Survey Code
☐ (1) Not Checked ☐ (2) Not Located ☑ (3) No Initial Occupancy Determination ☐ (4) No Nesting Status Update ☐ (5) Productivity Not Determined
☐ (6) Complete Survey, Productivity Determined

Status Code
☑ (1) Unoccupied ☐ (2) Other Species ☐ (3) Single Adult ☐ (4) Occupied ☐ (5) Active ☐ (6) Unsuccessful ☐ (7) Successful

Nest Condition Code
☐ (1) New ☐ (2) Good ☐ (3) Fair ☑ (4) Poor ☐ (5) Nest Destroyed: _____

Nesting Determination
☐ (1) Status Unknown ☑ (2) Not Active ☐ (3) Nest Abandoned ☐ (4) Active, Not Successful ☐ (5) Active, Success Unknown ☐ (6) Successful

Number of Fledglings: 0 young (at or near fledging age)

III. SURVEY RESULTS

OBSERVATION PERIOD	Date Checked	Nest Condition	Nesting Activity (construction etc.)	Adult Presence / Behavior	Incubation/Brooding Posture	Number of Young	Stage of Young
Initial Determination of Occupancy **February 1 – March 31** (pre-egg laying and early incubation)							
Update Nesting Status **April 1 – June 15** (late incubation and nestlings)	6/11/19	Not found		None observed.			
			Is Rockford nest where this pair relocated too?				
Determine Productivity **June 15 – July 31** (late nestling and fledging)	7/22/19	4		0		0	
		[redacted]	Nest is mostly fallen out of tree.		The nest tree is the tallest		
			ponderosa pine at top of the point.				

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SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000)
BALD EAGLE NEST MONITORING FORM
2019

I. ID

Territory Name: Charles Maas W Territory/Nest Number: 305-05 Observer Initial: RS Reviewer Initial: LS

II. SURVEY SUMMARY

Survey Code
☐ (1) Not Checked ☐ (2) Not Located (3) No Initial Occupancy Determination ☐ (4) No Nesting Status Update ☐ (5) Productivity Not Determined
☑ (6) Complete Survey, Productivity Determined

Status Code
(1) Unoccupied ☐ (2) Other Species ☐ (3) Single Adult ☐ (4) Occupied ☑ (5) Active ☐ (6) Unsuccessful ☐ (7) Successful

Nest Condition Code
☐ (1) New ☑ (2) Good ☐ (3) Fair ☐ (4) Poor ☐ (5) Nest Destroyed: _____

Nesting Determination
☐ (1) Status Unknown __ (2) Not Active ☐ (3) Nest Abandoned ☑ (4) Active, Not Successful ☐ (5) Active, Success Unknown ☐ (6) Successful

Number of Fledglings: 0 young (at or near fledging age)

III. SURVEY RESULTS

Nest tree is a P. pine

OBSERVATION PERIOD	Date Checked	Nest Condition	Nesting Activity (construction etc.)	Adult Presence / Behavior	Incubation/Brooding Posture	Number of Young	Stage of Young
Initial Determination of Occupancy **February 1 – March 31** (pre-egg laying and early incubation)	5/31/19	2		No adults observed	/	0	
	Nest has fresh twigs + looks Active			but I couldn't see a nestling.			
	Charles Maas E - nest not found						
Update Nesting Status **April 1 – June 15** (late incubation and nestlings)	6/26/19			No adult observed		0	
		No signs of use under nest.					
Determine Productivity **June 15 – July 31** (late nestling and fledging)	7/30/19	2-3		0		0	

SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000)
BALD EAGLE NEST MONITORING FORM
20 19

I. ID

Territory Name: Deep Creek Territory/Nest Number: 06 W10 901 Observer Initial: LS Reviewer Initial: RL

II. SURVEY SUMMARY

Survey Code
☐ (1) Not Checked ☐ (2) Not Located ☐ (3) No Initial Occupancy Determination ☐ (4) No Nesting Status Update ☐ (5) Productivity Not Determined
☒ (6) Complete Survey, Productivity Determined

Status Code
☐ (1) Unoccupied ☐ (2) Other Species ☐ (3) Single Adult ☒ (4) Occupied ☒ (5) Active ☐ (6) Unsuccessful ☒ (7) Successful

Nest Condition Code
☐ (1) New ☒ (2) Good ☐ (3) Fair ☐ (4) Poor ☐ (5) Nest Destroyed: ____

Nesting Determination
☐ (1) Status Unknown ☐ (2) Not Active ☐ (3) Nest Abandoned ☐ (4) Active, Not Successful ☐ (5) Active, Success Unknown ☒ (6) Successful

Number of Fledglings: 2 young (at or near fledging age)

III. SURVEY RESULTS

OBSERVATION PERIOD	Date Checked	Nest Condition	Nesting Activity (construction etc.)	Adult Presence / Behavior	Incubation/Brooding Posture	Number of Young	Stage of Young
Initial Determination of Occupancy							
February 1 – March 31	03/18/19	UNK –	access thru Park	snowbound	– unk determination		
(pre-egg laying and early incubation)							
						UNK	eggs
Update Nesting Status	04/18/19	good	N1? nest	white head on nest may be Osprey	inc – check	next time	w/scope
April 1 – June 15	check 3 obs points 1+hour			AD BAEA @ south end of	territory Near N2		
(late incubation and nestlings)	vulture + RTHA near N1						
	6/13/19	good	yes @ N1	2AD TDIF S. end one flew to nest	PER @ nest	slightly smaller 2	
Determine Productivity							
June 15 – July 31	7/12/19	unk	Done	Ø	Ø	2	fldg
(late nestling and fledging)	Hiked to Deep Creek Int. trail to find another obs. point – not found						
	but 2 fledglings perched together on hillslope below approx location.						

Went up trail to locate nest – not found
→ near N1 – need to check next time + new access @ bridge ~~or bridge trail~~ ? 7 mile overlook?
see photos. Marked rock here @ 11724 Nine Mile Rd. w/goggles + der teeth, Nest NW on S
CNR slope below ridge – that extends to bridge. Lunched out today

SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000)
BALD EAGLE NEST MONITORING FORM
2019

I. ID

Territory Name: Four Mound Territory/Nest Number: 06W10502 Observer Initial: LS Reviewer Initial: RA

II. SURVEY SUMMARY

Survey Code
☐ (1) Not Checked ☐ (2) Not Located ☐ (3) No Initial Occupancy Determination ☐ (4) No Nesting Status Update ☐ (5) Productivity Not Determined
☒ (6) Complete Survey, Productivity Determined

Status Code
☐ (1) Unoccupied ☐ (2) Other Species ☐ (3) Single Adult ☒ (4) Occupied ☒ (5) Active ☐ (6) Unsuccessful ☒ (7) Successful

Nest Condition Code
☐ (1) New ☒ (2) Good ☐ (3) Fair ☐ (4) Poor ☐ (5) Nest Destroyed: _____

Nesting Determination
☐ (1) Status Unknown ☐ (2) Not Active ☐ (3) Nest Abandoned ☐ (4) Active, Not Successful ☐ (5) Active, Success Unknown ☒ (6) Successful

Number of Fledglings: 2 young (at or near fledging age)

III. SURVEY RESULTS

OBSERVATION PERIOD	Date Checked	Nest Condition	Nesting Activity (construction etc.)	Adult Presence / Behavior	Incubation/Brooding Posture	Number of Young	Stage of Young
Initial Determination of Occupancy **February 1 – March 31** (pre-egg laying and early incubation)	3/4/19	Good	none	both perched	unk		
	3/18/19	"	"	both	inc	unk	
	4/2/19	"	"	both	inc	"	
Update Nesting Status **April 1 – June 15** (late incubation and nestlings)	4/18/19	"	"	"	"	"	
	5/17/19	"	"	both	"		hatchlings? 1A
	5/24/19	"	"	"	not obs		unk
	5/30/19	"	"	"	brd	2	3a/b
Determine Productivity **June 15 – July 31** (late nestling and fledging)	6/12/19	"	"	"	per		3c
	6/24/19	"	"	"	per		3d
	7/12/19	"	"	"	"	2	fldg
	7/24/19	"	"	"	"	"	"

5/30 nestlings upright
6/12 nestlings perching

SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000)
BALD EAGLE NEST MONITORING FORM
20__

I. ID

Territory Name: Four Mound N Territory/Nest Number: 105-01 Observer Initial: RS Reviewer Initial: LS

II. SURVEY SUMMARY

Survey Code
☐ (1) Not Checked ☑ (2) Not Located ☑ (3) No Initial Occupancy Determination ☐ (4) No Nesting Status Update ☐ (5) Productivity Not Determined
☐ (6) Complete Survey, Productivity Determined

Status Code
☐ (1) Unoccupied ☐ (2) Other Species ☐ (3) Single Adult ☐ (4) Occupied ☐ (5) Active ☐ (6) Unsuccessful ☐ (7) Successful

Nest Condition Code
☐ (1) New ☐ (2) Good ☐ (3) Fair ☐ (4) Poor ☐ (5) Nest Destroyed:_____

Nesting Determination
☑ (1) Status Unknown ☐ (2) Not Active ☐ (3) Nest Abandoned ☐ (4) Active, Not Successful ☐ (5) Active, Success Unknown ☐ (6) Successful

Number of Fledglings: 0 young (at or near fledging age)

III. SURVEY RESULTS

OBSERVATION PERIOD	Date Checked	Nest Condition	Nesting Activity (construction etc.)	Adult Presence / Behavior	Incubation/Brooding Posture	Number of Young	Stage of Young
Initial Determination of Occupancy							
February 1 – March 31	5/31/19		No nest found	0		0	
(pre-egg laying and early incubation)							
	6/18/19		No nest found	1 adult perched ~100m of where map indicates nest used to be. It flew towards Willow Bay		0	
Update Nesting Status							
April 1 – June 15							
(late incubation and nestlings)							
Determine Productivity	7/18/19			0		0	
June 15 – July 31							
(late nestling and fledging)							

SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000)
BALD EAGLE NEST MONITORING FORM
20__

I. ID

Territory Name: Four Mound S Territory/Nest Number: 105-02 Observer Initial: RS Reviewer Initial: LS

II. SURVEY SUMMARY

Survey Code
☐ (1) Not Checked ☐ (2) Not Located ☐ (3) No Initial Occupancy Determination ☐ (4) No Nesting Status Update ☐ (5) Productivity Not Determined
☑ (6) Complete Survey, Productivity Determined

Status Code
☐ (1) Unoccupied ☐ (2) Other Species ☐ (3) Single Adult ☑ (4) Occupied ☑ (5) Active ☐ (6) Unsuccessful ☑ (7) Successful

Nest Condition Code
☐ (1) New ☑ (2) Good ☐ (3) Fair ☐ (4) Poor ☐ (5) Nest Destroyed: _____

Nesting Determination
☐ (1) Status Unknown ☐ (2) Not Active ☐ (3) Nest Abandoned ☐ (4) Active, Not Successful ☐ (5) Active, Success Unknown ☑ (6) Successful

Number of Fledglings: 2 young (at or near fledging age)

III. SURVEY RESULTS Nest is in a live P. pine just R of brown house.

OBSERVATION PERIOD	Date Checked	Nest Condition	Nesting Activity (construction etc.)	Adult Presence / Behavior	Incubation/Brooding Posture	Number of Young	Stage of Young
Initial Determination of Occupancy **February 1 – March 31** (pre-egg laying and early incubation)							
	5/31/19	2		1	Fed nestlings	2	3b/3c
Update Nesting Status **April 1 – June 15** (late incubation and nestlings)	6/18/19			1		2	3c
		Adult	was perched 400	m to N. Both	nestlings in nest.		
Determine Productivity **June 15 – July 31** (late nestling and fledging)	7/18/19			0		0	

GW 11001 ← ~~103-03~~ Territory will be renamed.

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SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000)
BALD EAGLE NEST MONITORING FORM

20 19 ~~2019~~

47.829281
-117.619037

I. ID

Territory Name: Little Sandy Sunset Territory/Nest Number: 103 ~~-01~~ Observer Initial: RS Reviewer Initial: LS

II. SURVEY SUMMARY

Survey Code
☐ (1) Not Checked ☐ (2) Not Located ☐ (3) No Initial Occupancy Determination ☐ (4) No Nesting Status Update ☐ (5) Productivity Not Determined
☑ (6) Complete Survey, Productivity Determined

Status Code
☐ (1) Unoccupied ☐ (2) Other Species ☐ (3) Single Adult ☑ (4) Occupied ☑ (5) Active ☐ (6) Unsuccessful ☑ (7) Successful

Nest Condition Code
☐ (1) New ☑ (2) Good ☐ (3) Fair ☐ (4) Poor ☐ (5) Nest Destroyed: _____

Nesting Determination
☐ (1) Status Unknown ☐ (2) Not Active ☐ (3) Nest Abandoned ☐ (4) Active, Not Successful ☐ (5) Active, Success Unknown ☑ (6) Successful

Number of Fledglings: 1 young (at or near fledging age)

III. SURVEY RESULTS

OBSERVATION PERIOD	Date Checked	Nest Condition	Nesting Activity (construction etc.)	Adult Presence / Behavior	Incubation/Brooding Posture	Number of Young	Stage of Young
Initial Determination of Occupancy **February 1 – March 31** (pre-egg laying and early incubation)							
		Nest is in	a P. pine; top of	tree is dead			
Update Nesting Status **April 1 – June 15** (late incubation and nestlings)	5/31/19	2	No adults present	X	X	1	3b
	~~6/18/19~~						
Determine Productivity **June 15 – July 31** (late nestling and fledging)	6/18/19	2	1 adult landed/perched in tree 70m	upslope of nest tree.		1	3c/3d
					Nestling in tree ~30m of		nest tree.
	7/18/19	2		0		0	

Saw 4 eagles flying high overhead ≥ 2 juveniles.

SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000)
BALD EAGLE NEST MONITORING FORM
2019

I. ID

Territory Name: Long Lake S Territory/Nest Number: 220-10 Observer Initial: RS Reviewer Initial: LS

II. SURVEY SUMMARY

Survey Code
☐ (1) Not Checked ☐ (2) Not Located ☐ (3) No Initial Occupancy Determination ☐ (4) No Nesting Status Update ☐ (5) Productivity Not Determined
☑ (6) Complete Survey, Productivity Determined

Status Code
☐ (1) Unoccupied ☐ (2) Other Species ☐ (3) Single Adult ☑ (4) Occupied ☑ (5) Active ☐ (6) Unsuccessful ☑ (7) Successful

Nest Condition Code
☐ (1) New ☐ (2) Good ☐ (3) Fair ☐ (4) Poor ☐ (5) Nest Destroyed: _____

Nesting Determination
☐ (1) Status Unknown ☐ (2) Not Active ☐ (3) Nest Abandoned ☐ (4) Active, Not Successful ☐ (5) Active, Success Unknown ☑ (6) Successful

Number of Fledglings: 2 young (at or near fledging age)

III. SURVEY RESULTS Nest tree is a P. pine w/ live canopy ~ 40m from shore

OBSERVATION PERIOD	Date Checked	Nest Condition	Nesting Activity (construction etc.)	Adult Presence / Behavior	Incubation/Brooding Posture	Number of Young	Stage of Young
Initial Determination of Occupancy **February 1 – March 31** (pre-egg laying and early incubation)							
	5/31/19	2	1 adult perched on N. shore	1/4 mi downstream	x	1	3b
Update Nesting Status **April 1 – June 15** (late incubation and nestlings)	6/18/19	2		0 adults obs		2	
Determine Productivity **June 15 – July 31** (late nestling and fledging)	7/18/19	2		0		0	

SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000)
BALD EAGLE NEST MONITORING FORM
2019

I. ID

Territory Name: Lower Spokane River Territory/Nest Number: 06 W/0/01 Observer Initial: LS Reviewer Initial: RL

II. SURVEY SUMMARY

Survey Code
☐ (1) Not Checked ☐ (2) Not Located ☐ (3) No Initial Occupancy Determination ☐ (4) No Nesting Status Update ☐ (5) Productivity Not Determined
☒ (6) Complete Survey, Productivity Determined

Status Code
☐ (1) Unoccupied ☐ (2) Other Species ☐ (3) Single Adult ☒ (4) Occupied ☒ (5) Active ☒ (6) Unsuccessful ☐ (7) Successful

Nest Condition Code
☐ (1) New ☒ (2) Good ☐ (3) Fair ☐ (4) Poor ☐ (5) Nest Destroyed: ______

Nesting Determination
☐ (1) Status Unknown ☐ (2) Not Active ☒ (3) Nest Abandoned ☒ (4) Active, Not Successful ☐ (5) Active, Success Unknown ☐ (6) Successful

Number of Fledglings: 0 young (at or near fledging age)

III. SURVEY RESULTS

OBSERVATION PERIOD	Date Checked	Nest Condition	Nesting Activity (construction etc.)	Adult Presence / Behavior	Incubation/Brooding Posture	Number of Young	Stage of Young
Initial Determination of Occupancy							
February 1 – March 31							
(pre-egg laying and early				Im by dam	NA		
incubation)	3/18/19	good	—	fm nest	Inc.	—	—
Update Nesting Status	4/18/19	good		"	"		
April 1 – June 15	4/22/19	good	—	∅	∅		
(late incubation and nestlings)	6/12/19	good	∅	∅	∅		
	anglers did not see any bald eagles last hr or so - just osprey						
Determine Productivity							
June 15 – July 31	7/24/19	good	∅	∅			
(late nestling and fledging)							

Territory/Nest Number: Lower Spokane OKW1010

IV. SUPPLEMENTAL NESTING INFORMATION (If known)

Date of adult arrival:		**Date of adult dispersal:**	
Date of egg laying:		**Clutch size:**	
Date of hatching:		**Date/Number of fledglings at dispersal:**	
Date of fledging:		**Banding data:**	

V. NARRATIVE INFORMATION

Nesting attempt failed (Yes/No), date/nesting period of failure:

Reason for failure: unknown

Nest Abandoned (Yes/No), date: prior to 4/22/19, after 4/18/19 observations

Reason for abandonment:

Disturbing Activities (record type, duration, and proximity to nest) Fall 2018, .45 miles from nest transmission line upgrade, 1 month duration. Outside of established BASA territory, but adjacent to it

Habitat Alterations (record type, extent, and proximity to nest)

N/A

Ongoing Disturbances (record type, extent, and proximity to nest)

residential, across river from nest; osprey nests upstream (2) within territory; highway bridge ~ 800' = noise

Prepared by: J Skagis **Date:**

Reviewed by: **Date:**

Territory/Nest Number: Lower Spokane 06W1010

IV. SUPPLEMENTAL NESTING INFORMATION (If known)

Date of adult arrival:		**Date of adult dispersal:**	
Date of egg laying:		**Clutch size:**	
Date of hatching:		**Date/Number of fledglings at dispersal:**	
Date of fledging:		**Banding data:**	

V. NARRATIVE INFORMATION

Nesting attempt failed (Yes/No), date/nesting period of failure:

Reason for failure: unknown

Nest Abandoned (Yes/No), date: prior to 4/22/19, after 4/18/19 observations

Reason for abandonment:

Disturbing Activities (record type, duration, and proximity to nest) Fall 2018, .45 miles from nest transmission line upgrade, 1 month duration. Outside of established BAEA territory, but adjacent to it

Habitat Alterations (record type, extent, and proximity to nest)

N/A

Ongoing Disturbances (record type, extent, and proximity to nest)

residential, across river from nest; osprey nests upstream (2) within territory; highway bridge ~ 800' = noise

Prepared by: L Stragis **Date:**

Reviewed by: **Date:**

Page 1 of 1

SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000)
BALD EAGLE NEST MONITORING FORM
2019

I. **ID**

Territory Name: North Shore (E) Territory/Nest Number: 104-03 Observer Initial: RS Reviewer Initial: LS

II. **SURVEY SUMMARY**

Survey Code
☐ (1) Not Checked ☐ (2) Not Located ☐ (3) No Initial Occupancy Determination ☐ (4) No Nesting Status Update ☑ (5) Productivity Not Determined
☑ (6) Complete Survey, Productivity Determined

Status Code
☐ (1) Unoccupied ☐ (2) Other Species ☐ (3) Single Adult ☑ (4) Occupied ☑ (5) Active ☑ (6) Unsuccessful ☑ (7) Successful

Nest Condition Code
☐ (1) New ☑ (2) Good ☐ (3) Fair ☐ (4) Poor ☐ (5) Nest Destroyed: _____

Nesting Determination
☐ (1) Status Unknown ☐ (2) Not Active ☐ (3) Nest Abandoned ☐ (4) Active, Not Successful ☐ (5) Active, Success Unknown ☑ (6) Successful

Number of Fledglings: 1 young (at or near fledging age)

Nest tree ~ 80m of Google Map coord.

III. **SURVEY RESULTS**

Nest tree is P. pine ~ 20' from shore + behind other pines. Tree is spindly.

OBSERVATION PERIOD	Date Checked	Nest Condition	Nesting Activity (construction etc.)	Adult Presence / Behavior	Incubation/Brooding Posture	Number of Young	Stage of Young
Initial Determination of Occupancy							
February 1 – March 31							
(pre-egg laying and early incubation)	5/31/19	2	Adult perch on branch above nest.			1	
Update Nesting Status	6/18/19	2		1 adult		1	
April 1 – June 15							
(late incubation and nestlings)							
Determine Productivity	7/18/19	2		1		0	
June 15 – July 31							
(late nestling and fledging)							

SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000)
BALD EAGLE NEST MONITORING FORM
2019

I. ID

Territory Name: N. Shore (W) Territory/Nest Number: 104-02 Observer Initial: RS Reviewer Initial: LS

II. SURVEY SUMMARY

Survey Code
☐ (1) Not Checked ☐ (2) Not Located ☑ (3) No Initial Occupancy Determination ☐ (4) No Nesting Status Update ☐ (5) Productivity Not Determined
☐ (6) Complete Survey, Productivity Determined late start

Status Code
☑ (1) Unoccupied ☐ (2) Other Species ☐ (3) Single Adult ☐ (4) Occupied ☐ (5) Active ☐ (6) Unsuccessful ☐ (7) Successful

Nest Condition Code
☐ (1) New ☐ (2) Good ☑ (3) Fair ☐ (4) Poor ☐ (5) Nest Destroyed: _____

Nesting Determination
☑ (1) Status Unknown ☐ (2) Not Active ☐ (3) Nest Abandoned ☐ (4) Active, Not Successful ☐ (5) Active, Success Unknown ☐ (6) Successful

Number of Fledglings: 0 young (at or near fledging age)

III. SURVEY RESULTS Nest tree is P. Pine @ top of ridge w/ live canopy. 180 yards to shoreline.

OBSERVATION PERIOD	Date Checked	Nest Condition	Nesting Activity (construction etc.)	Adult Presence / Behavior	Incubation/Brooding Posture	Number of Young	Stage of Young
Initial Determination of Occupancy **February 1 – March 31** (pre-egg laying and early incubation)							
Update Nesting Status **April 1 – June 15** (late incubation and nestlings)	6/18/19	2/3		0		0	
Determine Productivity **June 15 – July 31** (late nestling and fledging)	7/18/19			0		0	

SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000)
BALD EAGLE NEST MONITORING FORM
20 19

I. ID

Territory Name: Powerball Territory/Nest Number: 107-01 Observer Initial: RS Reviewer Initial: LS

II. SURVEY SUMMARY

Survey Code
☐ (1) Not Checked ☐ (2) Not Located ☐ (3) No Initial Occupancy Determination ☐ (4) No Nesting Status Update ☐ (5) Productivity Not Determined
☑ (6) Complete Survey, Productivity Determined

Status Code
☐ (1) Unoccupied ☐ (2) Other Species ☐ (3) Single Adult ☑ (4) Occupied ☑ (5) Active ☐ (6) Unsuccessful ☑ (7) Successful

Nest Condition Code
☐ (1) New ☑ (2) Good ☐ (3) Fair ☐ (4) Poor ☐ (5) Nest Destroyed: _____

Nesting Determination
☐ (1) Status Unknown ☐ (2) Not Active ☐ (3) Nest Abandoned ☐ (4) Active, Not Successful ☐ (5) Active, Success Unknown ☑ (6) Successful

Number of Fledglings: 1 young (at or near fledging age)

III. SURVEY RESULTS

OBSERVATION PERIOD	Date Checked	Nest Condition	Nesting Activity (construction etc.)	Adult Presence / Behavior	Incubation/Brooding Posture	Number of Young	Stage of Young
Initial Determination of Occupancy **February 1 – March 31** (pre-egg laying and early incubation)		Nest tree is ~10' from shore & is ~65' tall; nest is ~55' high in live canopy.					
Update Nesting Status **April 1 – June 15** (late incubation and nestlings)	5/31/19	2	No adults obs.			2	3b/3c
	6/18/19		1 adult perched on branch above nest by 1 foot			1	3c
Determine Productivity **June 15 – July 31** (late nestling and fledging)	7/18/19		⊘	⊘ Fledgling flew into nest tree & perched on limb.		1	Fledged

Page 1 of 1

SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000)
BALD EAGLE NEST MONITORING FORM
2019

I. ID

Territory Name: Riverside Launch Territory/Nest Number: 106 - 01 Observer Initial: RS Reviewer Initial: LS

II. SURVEY SUMMARY

Survey Code
☐ (1) Not Checked ☐ (2) Not Located ☐ (3) No Initial Occupancy Determination ☐ (4) No Nesting Status Update ☐ (5) Productivity Not Determined
☑ (6) Complete Survey, Productivity Determined

Status Code
☐ (1) Unoccupied ☐ (2) Other Species ☐ (3) Single Adult ☑ (4) Occupied ☑ (5) Active ☐ (6) Unsuccessful ☑ (7) Successful

Nest Condition Code
☐ (1) New ☑ (2) Good ☐ (3) Fair ☐ (4) Poor ☐ (5) Nest Destroyed: _____

Nesting Determination
☐ (1) Status Unknown ☐ (2) Not Active ☐ (3) Nest Abandoned ☐ (4) Active, Not Successful ☐ (5) Active, Success Unknown ☑ (6) Successful

Number of Fledglings: 2 young (at or near fledging age)

III. SURVEY RESULTS

OBSERVATION PERIOD	Date Checked	Nest Condition	Nesting Activity (construction etc.)	Adult Presence / Behavior	Incubation/Brooding Posture	Number of Young	Stage of Young
Initial Determination of Occupancy **February 1 – March 31** (pre-egg laying and early incubation)	5/31/19	2	No adult observed	x	x	1	3b/3c
		Nest observed directly across river from boat launch.					
	4/18/19	2	NA	1AD F	INC	—	—
Update Nesting Status **April 1 – June 15** (late incubation and nestlings)							
	6/26/19	2	No adult observed			2	3c/3d
Determine Productivity **June 15 – July 31** (late nestling and fledging)	7/30/19	2		0		0	

LS

SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000)
BALD EAGLE NEST MONITORING FORM
20 19

I. ID

Territory Name: Sportsman Territory/Nest Number: 108-01 Observer Initial: RS Reviewer Initial: LS

II. SURVEY SUMMARY

Survey Code
☐ (1) Not Checked ☐ (2) Not Located ☐ (3) No Initial Occupancy Determination ☐ (4) No Nesting Status Update ☐ (5) Productivity Not Determined
☑ (6) Complete Survey, Productivity Determined

Status Code
(1) Unoccupied ☐ (2) Other Species ☐ (3) Single Adult ☐ (4) Occupied ☑ (5) Active ☐ (6) Unsuccessful ☐ (7) Successful

Nest Condition Code
☐ (1) New ☑ (2) Good ☐ (3) Fair ☐ (4) Poor ☐ (5) Nest Destroyed: _____

Nesting Determination
☐ (1) Status Unknown (2) Not Active ☐ (3) Nest Abandoned ☑ (4) Active, Not Successful ☐ (5) Active, Success Unknown ☐ (6) Successful

Number of Fledglings: 0 young (at or near fledging age)

III. SURVEY RESULTS

OBSERVATION PERIOD	Date Checked	Nest Condition	Nesting Activity (construction etc.)	Adult Presence / Behavior	Incubation/Brooding Posture	Number of Young	Stage of Young
Initial Determination of Occupancy **February 1 – March 31** (pre-egg laying and early incubation)	5/31/19	2	Nice nest by house	None		0	
		Can't see any nestlings but difficult to see if they are laying down. Based					
		on nest material having new twigs, guessing that it is active.					
Update Nesting Status **April 1 – June 15** (late incubation and nestlings)	6/18/19	2	No adults	No sign of nestlings present		Ø	
Determine Productivity **June 15 – July 31** (late nestling and fledging)	7/18/19		0			0	

SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000)
BALD EAGLE NEST MONITORING FORM
2019

I. ID

Territory Name: Suncrest Territory/Nest Number: 103-02 Observer Initial: RS Reviewer Initial: LS

II. SURVEY SUMMARY

Survey Code
☐ (1) Not Checked ☐ (2) Not Located ☐ (3) No Initial Occupancy Determination ☐ (4) No Nesting Status Update ☐ (5) Productivity Not Determined
☑ (6) Complete Survey, Productivity Determined

Status Code
☐ (1) Unoccupied ☐ (2) Other Species ☐ (3) Single Adult ☑ (4) Occupied ☑ (5) Active ☐ (6) Unsuccessful ☑ (7) Successful

Nest Condition Code
☐ (1) New ☑ (2) Good ☐ (3) Fair ☐ (4) Poor ☐ (5) Nest Destroyed: _____

Nesting Determination
☐ (1) Status Unknown ☐ (2) Not Active ☐ (3) Nest Abandoned ☐ (4) Active, Not Successful ☐ (5) Active, Success Unknown ☑ (6) Successful

Number of Fledglings: 1 young (at or near fledging age)

III. SURVEY RESULTS

OBSERVATION PERIOD	Date Checked	Nest Condition	Nesting Activity (construction etc.)	Adult Presence / Behavior	Incubation/Brooding Posture	Number of Young	Stage of Young
Initial Determination of Occupancy **February 1 – March 31** (pre-egg laying and early incubation)	5/31/19		No adults present	X	X	≥ 1	3b
Update Nesting Status **April 1 – June 15** (late incubation and nestlings)	6-18-19	2	Nest in a P. Pine ~80' tall + nest is ~60'. Tree has a live canopy. ~~Nest was not surveyed on 5/31/19~~.		Nestling is perched on ~3' below nest.	1	3c limb
Determine Productivity **June 15 – July 31** (late nestling and fledging)	7/18/19	2	1 juvenile observed soaring high overhead	ⓐ		⓪	

SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000)
BALD EAGLE NEST MONITORING FORM
2019

I. ID

Territory Name: Whalen Territory/Nest Number: 297-03 Observer Initial: RS Reviewer Initial: LS

II. SURVEY SUMMARY

Survey Code
☐ (1) Not Checked ☐ (2) Not Located ☑ (3) No Initial Occupancy Determination ☐ (4) No Nesting Status Update ☐ (5) Productivity Not Determined
☐ (6) Complete Survey, Productivity Determined

Status Code
☐ (1) Unoccupied ☐ (2) Other Species ☐ (3) Single Adult ☐ (4) Occupied ☒ (5) Active ? 5/31, No ☐ (6) Unsuccessful ☐ (7) Successful

Nest Condition Code
☐ (1) New ☐ (2) Good ☐ (3) Fair ☑ (4) Poor ☐ (5) Nest Destroyed: _____

Nesting Determination
☒ (1) Status Unknown ☒ (2) Not Active ☐ (3) Nest Abandoned ☐ (4) Active, Not Successful ☐ (5) Active, Success Unknown ☐ (6) Successful

Number of Fledglings: 0 young (at or near fledging age)

III. SURVEY RESULTS

OBSERVATION PERIOD	Date Checked	Nest Condition	Nesting Activity (construction etc.)	Adult Presence / Behavior	Incubation/Brooding Posture	Number of Young	Stage of Young
Initial Determination of Occupancy							
February 1 – March 31	5-31-19	3		Adult perched w/in 200m of		0	
(pre-egg laying and early incubation)				nest. Closer to shore			
	6/12/19	3/4	NA	AD @ cove, PCAP	∅		
Update Nesting Status	6/18/19	3/4		0		0	
April 1 – June 15							
(late incubation and nestlings)							
Determine Productivity	7/18/19			0		0	
June 15 – July 31							
(late nestling and fledging)							

AD in territory, no nesting activity.

SPOKANE RIVER HYDROELECTRIC PROJECT (FERC Nos. 2545-091 and 12606-000)
BALD EAGLE NEST MONITORING FORM
20 19

I. ID

Territory Name: Willow Bay Territory/Nest Number: 102-01 Observer Initial: RS Reviewer Initial: LS

II. SURVEY SUMMARY

Survey Code
☐ (1) Not Checked ☐ (2) Not Located ☐ (3) No Initial Occupancy Determination ☐ (4) No Nesting Status Update ☐ (5) Productivity Not Determined
☑ (6) Complete Survey, Productivity Determined

Status Code
☐ (1) Unoccupied ☐ (2) Other Species ☐ (3) Single Adult ☑ (4) Occupied ☑ (5) Active ☑ (6) Unsuccessful ☑ (7) Successful

Nest Condition Code
☐ (1) New ☑ (2) Good ☐ (3) Fair ☐ (4) Poor ☐ (5) Nest Destroyed: _____

Nesting Determination
☐ (1) Status Unknown ☐ (2) Not Active ☐ (3) Nest Abandoned ☑ (4) Active, Not Successful ☐ (5) Active, Success Unknown ☑ (6) Successful

Number of Fledglings: ~~0~~ 2 young (at or near fledging age)

III. SURVEY RESULTS

OBSERVATION PERIOD	Date Checked	Nest Condition	Nesting Activity (construction etc.)	Adult Presence / Behavior	Incubation/Brooding Posture	Number of Young	Stage of Young	
Initial Determination of Occupancy **February 1 – March 31** (pre-egg laying and early incubation)								
		Nest tree is in a spindly P. pine ~ 20-30 m right of rocky face,						
			& tree top is sparsley branched & living.					
	3/18/19	2		F on nest	INC			LS
Update Nesting Status **April 1 – June 15** (late incubation and nestlings)	5/31/19	2	No adult observed			1	3b	
	6/12/19	2	"		♂	(2) fldg	3D	LS
	6/18/19		No adult obs.		Nestling not obs.			
Determine Productivity **June 15 – July 31** (late nestling and fledging)	7/18/19	2		1 - Flew out of nest stand		0		

APPENDIX B

2019 NEW NEST DOCUMENTATION

SPOKANE RIVER HYDROELECTRIC PROJECT
RAPTOR NEST RECORD

Species: Bald Eagle

Territory name (if known): Fernan West

Territory/nest number (if known): 07I03403

Reported by: L. Stragis Date: 3/19/2019

Location: T 50N R 3W Section 20 ¼ NE of ¼ NW

State: Idaho County: Kootenai

Elevation: ~2,500 feet Aspect: North

Lat/Long: 47.670694, -116.737262 Hydrologic unit: Fernan Lake

Nest stratum: tree, split top Nest height (circle ft or m): 80 ft.

Position on slope: over ½ way up slope Nest condition: good

Tree species: Douglass fir Tree height (circle ft or m): 90 ft DBH (circle in or cm): 24+

Land ownership: Private

USGS Quad name: Fernan Lake

Directions to nest: can be viewed along Fernan Road at first fishing turnout

Comments:

This nest is nearly directly above Fernan N1 along a side ridge,1/2 way to the top. The tree is situated below a rock outcrop with taller dead firs surrounding it. Labeled as N3, because this is the third nest located on Fernan Lake. In 2017 and 2018, two pairs of eagles began nesting on the Lake @ N1 and N2. In years previous, only one pair were observed to be nesting, alternating between N1 and N2.

Observer Initial: LS Date 07/30/2019 Reviewer Initial: RJ Date: 9/3/19

Attach locator map and photos showing nest site and nest


E Ballarat Ct
N Frosty Pine Trail
N Victorian Dr
E Fernan Hill Rd
E Fernan Lake Rd
OBS
E Fernan Terrace Dr
E Fernan Ct
Fernan Rd
N Lakeview Dr
Fernan 02 nest
Fernan 01 nest
Fernan 03 nest
E Potlatch Hill Rd
Google earth
90
4000 ft
N

Locator Map

Photo 1. View south over Fernan Lake, N3 above N1.

Photo 2. View south, N3 in split top fir

SPOKANE RIVER HYDROELECTRIC PROJECT
RAPTOR NEST RECORD

Species: Bald Eagle

Territory name (if known): Little Sandy

Territory/nest number (if known): 06W 110 01

Reported by: R. Stephens Date: 5/31/2019

Location: T27N R41E Section 22 ¼ SW of ¼ NE

State: Washington County: Stevens

Elevation: ~ 1,600 feet Aspect: North

Lat/Long: 47.829281, -117.619037 Hydrologic unit: Spokane River / Long Lake

Nest stratum: Tree Nest height (circle ft or m): 55

Position on slope: 100-150 feet upslope Nest condition: Good

Tree species: Ponderosa Tree height (circle ft or m): 65 DBH (circle in or cm): 24+

Land ownership: Private

USGS Quad name: Nine Mile Falls

Directions to nest: Drive boat 1.2 miles downstream of Suncrest Park boat launch along the Stevens County side.

Comments: Nest is downstream of Suncrest 103-01.

Observer Initial: RS Date 5/31/19 Reviewer Initial: L.Stragis Date: 9/11/2019

Attach locator map and photos showing nest site and nest


Suncrest Natural Area
Little Sandy 03
Jenna Dr
Moriah Dr
Brennan Court
Spokane River
Suncrest 01
Moriah Dr
Moss Ct

Locator Map

Photo 1. View northeast above Spokane River in Ponderosa Pine.

Photo 2. Nest with adult eagle.