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April 25, 2011

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RE: Jackson Hydroelectric Project – FERC No. P-2157
Terrestrial Resources 2011 Annual Report

Dear Colleagues:

The final Terrestrial Resources Annual Report for the Jackson Hydroelectric Project summarizing activities implemented during 2011 under the Terrestrial Resources Management Plan, Noxious Weed Management Plan, and the Marbled Murrelet Habitat Protection Plan is attached for your files. This is the first annual report under the new Jackson Project license. FERC will receive a five-year summary report for work accomplished from 2011-2015 in 2016.

A meeting was held at the Jackson Project Powerhouse on March 29, 2012, to discuss the report and answer questions. Brock Applegate (WDFW), Tim Romanski (USFWS, by phone), Allen McGuire (DNR), and Mark Hitchcock (City of Everett) attended the meeting and those present participated in an on-site field visit to the Penstock Right-of-Way on the Project Facility Lands tract, and to the Lost Lake tract. Notes from the meeting are included in the report in Attachment B. Agency correspondence is included in Appendix A of the report.

If you have questions or comments regarding the report or the on-going implementation activities, please contact Karen Bedrossian at 425-783-1774 or klbedrossian@snopud.com, or Mike Schutt at 425-783-1712 or msschutt@snopud.com.

Sincerely,

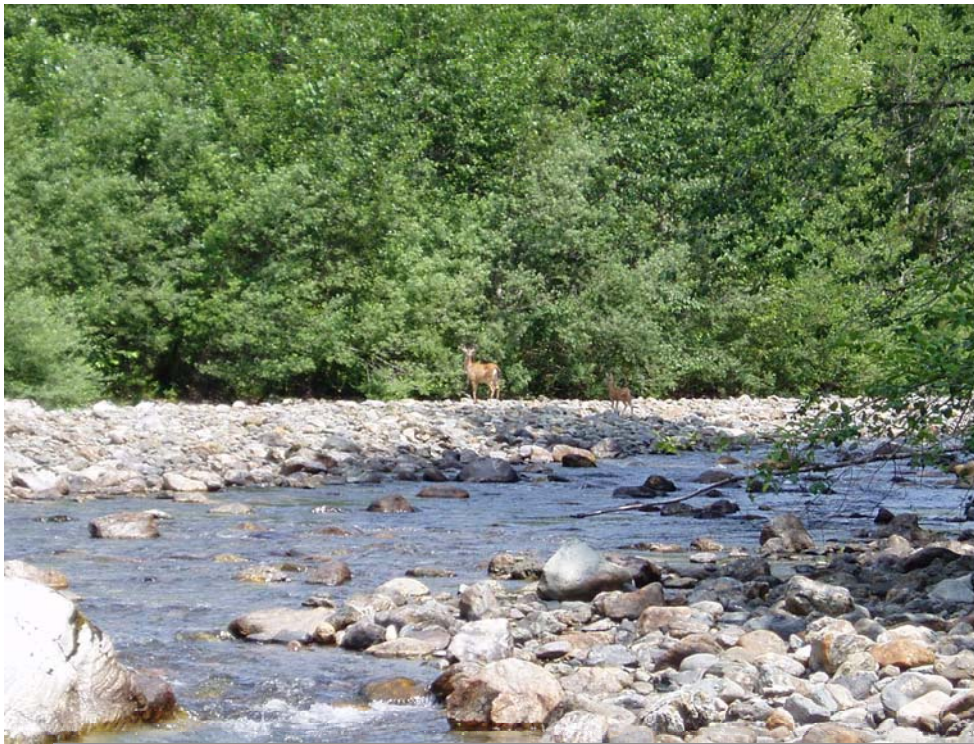
A handwritten signature in black ink, appearing to read 'Kim D. Moore', with a large, stylized initial 'K'.

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Enclosure: 2011 Terrestrial Resources Annual Report

Henry M. Jackson Hydroelectric Project
FERC No. 2157

**TERRESTRIAL RESOURCES
2011 ANNUAL REPORT**



April 2012

Submitted by:

Public Utility District No.1 of Snohomish County



Everett, WA

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Executive Summary

Activities accomplished during 2011 on the Terrestrial Resource Management Plan (TRMP), Noxious Weed Management Plan (NWMP), and Marbled Murrelet Habitat Protection Plan (MMHPP) for the Henry M. Jackson Hydroelectric Project (Project) are summarized in this report. Implementation of these plans was initiated following the FERC Order Issuing New License issued on 2 September 2011. Requirements of each plan were met during 2011. Tasks scheduled for 2012 are presented. No problems were encountered and no significant changes are proposed for the TRMP, NWMP, or MMHPP.

Tasks Accomplished during 2011

- Created snags, decaying live trees and gaps on Lost Lake and Spada Lake tracts to promote old growth characteristics in younger aged stands
- Maintained and monitored waterfowl nest boxes at Lost Lake, resulting in successful waterfowl nesting in two boxes
- Preserved and protected old growth forest, wetlands, and riparian forest on Project lands
- Implemented an intensive effort to manage noxious and invasive weeds on all TRMP tracts of land, with a particular effort to control weed infestations on Culmback Dam
- Revised MMHPP in early 2011 in consultation with US Fish and Wildlife Service (USFWS), to incorporate the Biological Opinion prepared by USFWS
- Followed the restrictions of the MMHPP in all Jackson Project related activities
- District biologists met with Jackson Project staff to inform and educate regarding the TRMP, NWMP, and MMHPP

Tasks Scheduled for 2012

- Create snags, decaying live trees and gaps on Lost Lake and Spada Lake tracts
- Maintain and monitor waterfowl nest boxes at Lost Lake
- Manage noxious and invasive weeds on all TRMP tracts of land
- Preserve and protect old growth forest, wetlands, and riparian forest on Project lands
- Stay informed of Jackson Project activities and ensure that the MMHPP is considered when activities are being planned and adhered to when activities are conducted
- Inform and educate Project staff regarding the TRMP, NWMP, and MMHPP

1. INTRODUCTION

The Terrestrial Resource Management Plan (TRMP), Noxious Weed Management Plan (NWMP), and Marbled Murrelet Habitat Protection Plan (MMHPP) for the Henry M. Jackson Hydroelectric Project (Project) are requirements under the Federal Energy Regulatory Commission (FERC) Order Issuing New License, issued on 2 September 2011 (136 FERC ¶ 62,188), Ordering Paragraph E, License Appendix B, Condition 2; and Article 411 Marbled Murrelet Habitat Protection Plan. The 2011 Annual Progress Report for the TRMP, NWMP, and MMHPP was prepared by Public Utility District No. 1 of Snohomish County (District) as required by each of these plans.

The TRMP describes the actions the District will take to protect, mitigate and enhance terrestrial resources associated with the Project on four management tracts, shown in Figure 1-1. The TRMP was prepared in consultation with the U.S. Fish and Wildlife Service (USFWS), U.S. Forest Service Mt. Baker-Snoqualmie National Forest (USFS), Washington Department of Fish and Wildlife (WDFW), and the Tulalip Tribes (Tribes) and guides the management of approximately 4,456 acres of land and water within the Project boundary. The TRMP is available on the District's web site (<http://www.snopud.com/PowerSupply/hydro/jhp/jhplicense.ashx?p=1978>).

The TRMP incorporates habitat enhancement methods for forest vegetation management, including old growth, young forest and understory management; lake, wetland and stream buffers; snags and decaying live trees; coarse woody debris; right-of-way management; and waterfowl nest boxes on the four tracts. The TRMP describes the existing habitat conditions and values, management constraints, habitat management objectives, habitat management methods, and management prescriptions for each tract. It also describes monitoring and reporting and provides a schedule for implementation.

The TRMP requires that a report be prepared and submitted to the USFWS, WDFW, and the Tribes annually and submitted to FERC every five years. Reports summarize and document implementation of the TRMP during the intervening period and identify activities planned for the next period. Monitoring data is presented in summary form and analyzed. Problems and proposed changes in the TRMP, if any, are discussed. Review meetings are offered to the USFWS, WDFW and Tribes by the District, to discuss information included in the reports.

The NWMP describes the District's strategy for controlling and containing the spread of Class A, Class B Designate, and Snohomish County Selected noxious weeds, as well as other weeds the District manages, that occur within the Project boundary. The NWMP was developed in consultation with the Snohomish County Noxious Weed Board (SCNWB), the City of Everett (City), Washington Department of Natural Resources (DNR), USFWS, WDFW and USFS. The NWMP is available on the District's web site (<http://www.snopud.com/PowerSupply/hydro/jhp/jhplicense.ashx?p=1978>).

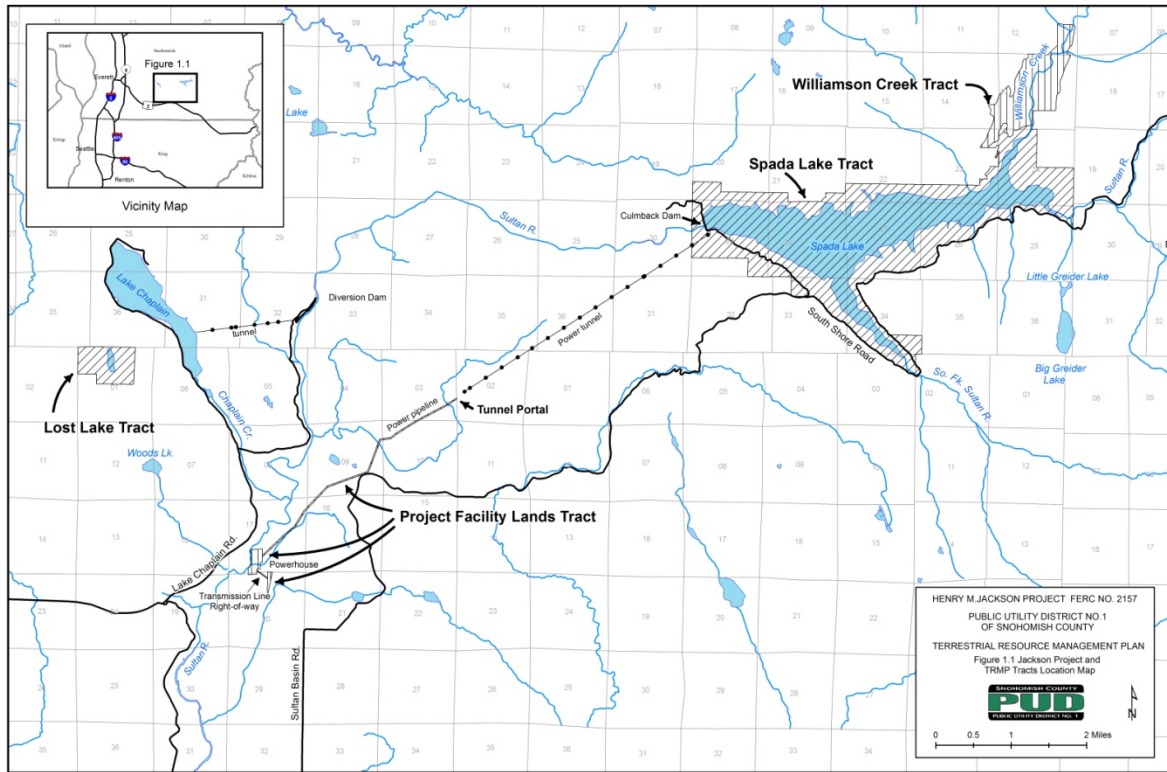


Figure 1-1. Jackson Project Location and Terrestrial Resource Management Plan Tracts

The NWMP includes:

- A list of Washington State Class A, Washington State Class B Designate and Snohomish County Selected Noxious Weeds, updated annually to reflect changes in State and County lists
- A summary of Washington State Class A, Washington State Class B Designate, Snohomish County Selected, and other target species of noxious weeds occurring within the Project boundary based on ongoing weed management work and the 2007 Noxious Weed Inventory
- A summary of ongoing weed management activities on Project lands
- Treatment options and recommendations for established and new infestations of target weed species, including management goals, measurable objectives, and priorities for treatment
- Prevention strategies (e.g., weed prevention practices for ground disturbing work, revegetation methods, and education information for Project employees)
- Monitoring and implementation schedules

The NWMP also includes annual consultation and updating with SCNWCB and the other mentioned stakeholders, within the TRMP reports. The annual update and consultation includes: updates to the noxious weed list, a summary of weed management actions taken since the previous report, and periodic (five-year) review of plan accomplishments and updates of lists and appendices; prepared in consultation with the stakeholders listed above. This information will be provided to the FERC as part of the TRMP five-year report.

Surveys by the District and others have documented the presence of marbled murrelets (a federally-listed threatened species) in the Sultan Basin, and have resulted in the designation of portions of the forest in and near the Project boundary as “occupied” by nesting marbled murrelets. The MMHPP describes specific measures that the District will implement to avoid or minimize Project-related impacts to marbled murrelets and their habitat. Three general types of Project-related activities are addressed in the plan: 1) pruning, topping and felling of road-side danger trees; 2) overstory thinning and creation of snags, decaying live trees, coarse woody debris and forest canopy gaps during implementation of the TRMP; and 3) the creation of new recreation trails and associated facilities as required in the Recreation Resource Management Plan (RRMP) under License Article 413.

In February 2011, the District updated the MMHPP to incorporate requirements of the USFWS Biological Opinion, Incidental Take Statement, Reasonable and Prudent Measures and Terms and Conditions for the proposed issuance of the license for the Jackson Project. These measures were reviewed by the Settlement Parties and USFWS concurred with the update. The updated MMHPP was included in the new license for the Project under Article 411. The MMHPP is available on the District’s web site (<http://www.snopud.com/PowerSupply/hydro/jhp/jhplicense.ashx?p=1978>).

License Article 411 approved the MMHPP and specified that survey results and field notes of monitoring efforts for marbled murrelets will be documented and sent to the USFWS in conjunction with the TRMP annual reports for any year that surveys are conducted or maps are updated. The MMHPP states that every 10 years or less, the District will update the Project marbled murrelet habitat maps to reflect current habitat conditions. The District may conduct surveys for nesting marbled murrelets in all suitable habitat that is not known to be occupied and has not been surveyed for 10 years or more. If the District chooses not to survey suitable habitat, such habitat will be considered occupied for purposes of the MMHPP and will be

described in the applicable report and update of the MMHPP. Article 411 requires that at least every 10 years, the District will file for Commission approval, an updated MMHPP developed in consultation with USFWS and WDFW. Activities related to the MMHPP during 2011 are noted in this annual report.

2. TERRESTRIAL RESOURCES MANAGEMENT PLAN

2.1. TRMP WORK COMPLETED IN 2011

2.1.1. Snags, Decaying Live Trees and Coarse Woody Debris

TRMP management measures include the creation of snags, decaying live trees (DLT), and coarse woody debris (CWD) from live trees, on the four tracts of land. Snags, DLTs and CWDs are collectively referred to as “woody habitat structures” in this report. Trees are selected from the largest size class and are typically clustered in groups of up to 30 trees, called “canopy gaps.” In an effort to maximize light penetration to the forest floor to encourage understory growth, canopy gaps are usually triangular in shape, with the base of the triangle being on the south or southwest side. The apex of the triangle is then on the north or northeast end. The target gap size is 0.1 to 0.25 acres, depending on local limitations. Research has shown this size to help minimize excessive in-seeding by hemlocks, which would reduce forage production within the gap.

Forest stands on the Spada Lake Tract were harvested in the 1960s and most are quite dense, with stem densities in many cases greater than 450 trees per acre; consequently, the diameter of trees is restricted and the number of trees comprising a canopy gap can be large. On the Spada Lake Tract, gap size is often limited by the presence of numerous drainages. The base of a typical gap there measures about 120 feet, with the height of the triangle also being about 120 feet (7,200 square feet; 0.16 acres). A gap of this size contains an average of 15 snags, 15 DLTs and 20 CWD trees.

Stand age on the Lost Lake Tract is typically around 75 years, with a selective harvest having been performed in the 1980s. The result, compared to the Spada Lake Tract, is much more heterogeneous and less dense stands that include individuals and pockets of deciduous trees. Due to lower stand density, average tree diameter and canopy coverage per tree is significantly greater than at Spada Lake. Consequently, fewer trees are required to be topped or felled in one area on the Lost Lake Tract to achieve a canopy gap similar in size to those at Spada Lake. A typical gap here contains one or two snags, two DLTs and four CWD logs.

Woody habitat structures may also be created individually or in small groups, as needed to maintain appropriate distribution, but only rarely; most often these structures are created in canopy gaps, as described above.

In 2011, woody habitat structures were created on the Spada Lake and Lost Lake tracts (Figures 2-1 and 2-2, Table 2-1). At the Spada Lake Tract, three stands/complexes totaling 137 acres were evaluated for woody habitat structure creation, and creation occurred on two of those stands. At the Lost Lake Tract, one 81-acre stand was treated, but not completed before the end of the year.

Table 2-1. Snag, Decaying Live Tree, and Coarse Woody Debris Creation in 2011

UNIT		Spada 9-36/ 37/59/89	Spada 9-38	Spada 9-42	Lost Lake 7-1
ACRES		56.3	39.3	41.2	81.0
SNAGS					
	# CREATED	166.0	94.0	0.0	21.0
	AVG DBH (in)	13.2	13.8		23.5
	AVG HT (ft)	46.4	59.2		87.1
	#/acre	3.0	2.4		0.3
DECAYING LIVE TREES					
	# CREATED	154.0	111.0	0.0	48.0
	AVG DBH (in)	14.5	16.3		24.6
	AVG HT (ft)	49.0	61.1		92.3
	#/acre	2.7	2.8		0.1
COARSE WOODY DEBRIS					
	# CREATED	193.0	149.0	0.0	83.0
	AVG DBH (in)	14.7	14.5		20.0
	#/acre	3.4	3.8		1.0
NOTES				Steep slide prone slopes. No Snag/DLT/CWD creation in this stand.	Unit will be completed in 2012

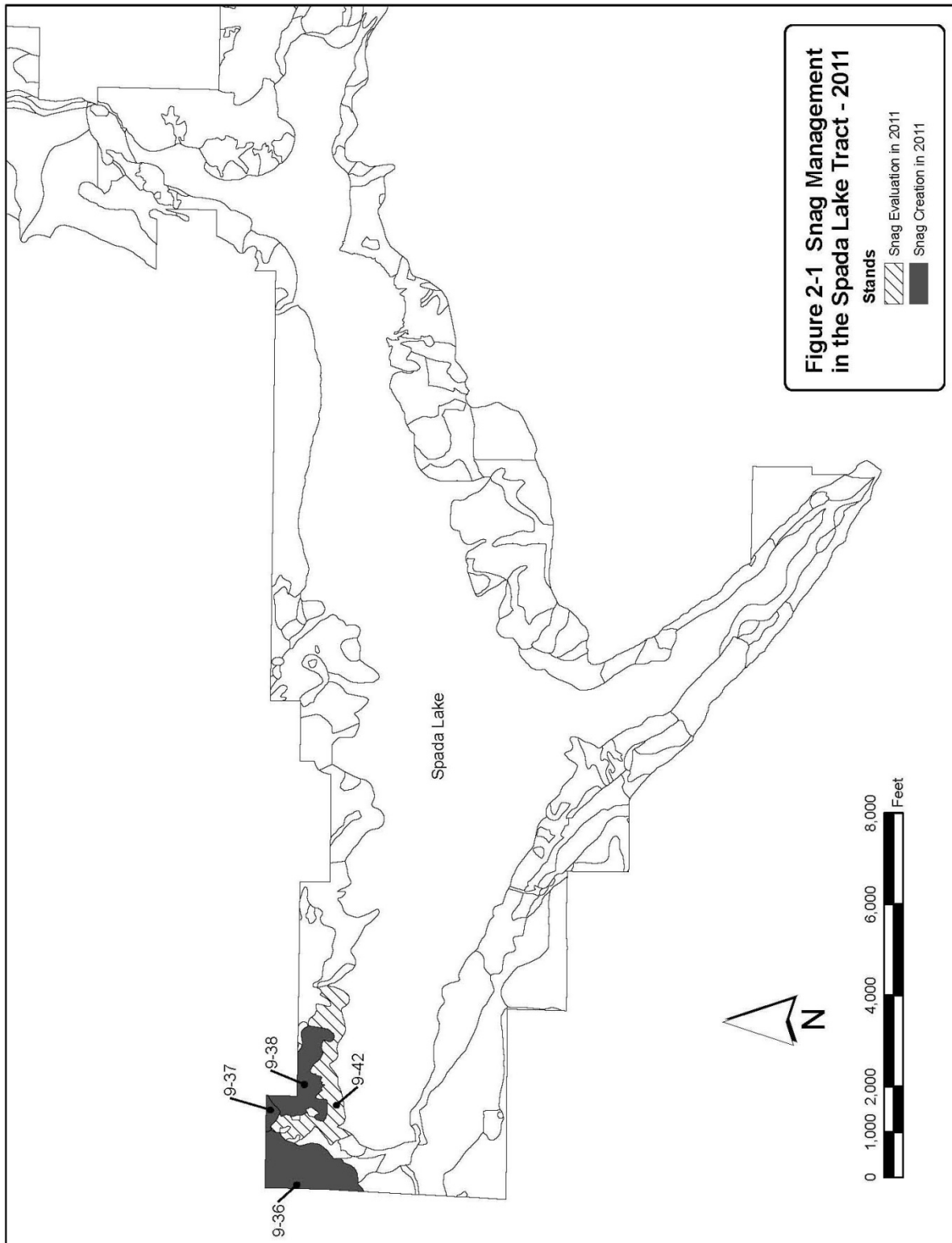
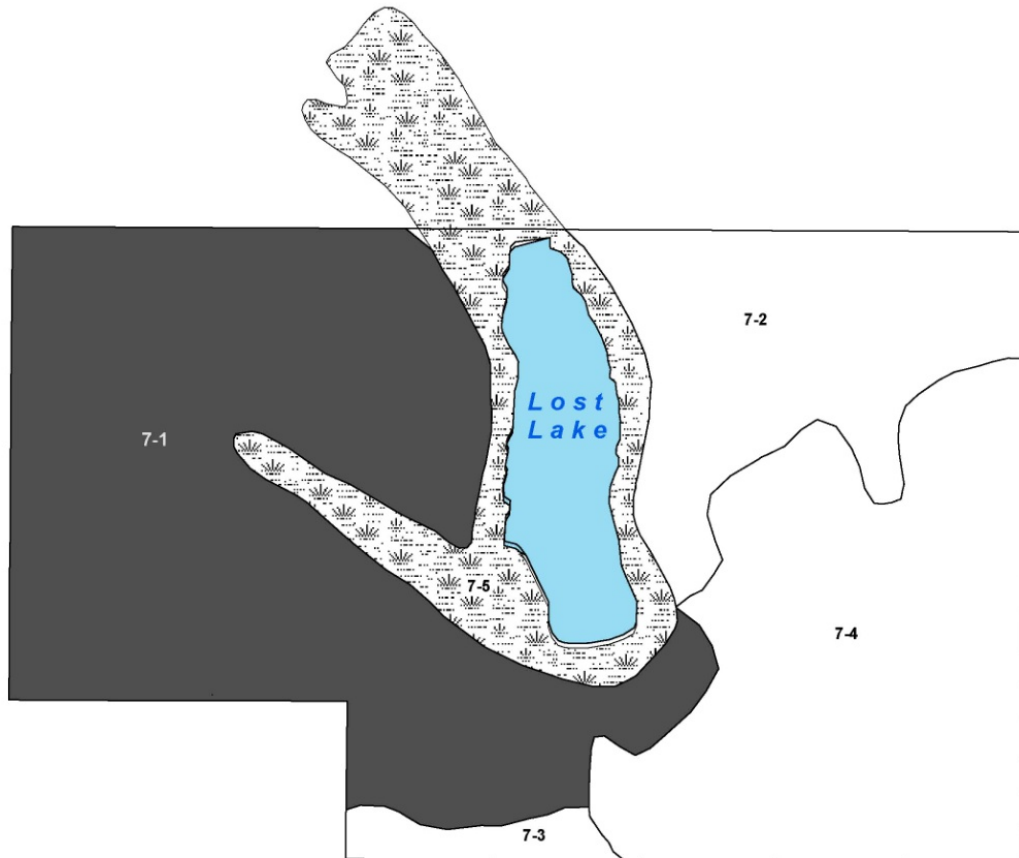


Figure 2-2. Snag Management on the Lost Lake Tract- 2011

Stands

■ Snag Creation 2011



0 150 300 600 900 1,200
Feet

2.1.2. Rights-Of-Way Management

Work on the pipeline right-of-way (ROW) consisted largely of weed control, but also included planning for potential bridge placement to span the three separate creek crossings between manhole P1 and P4 (Figure 2-3.). This would allow continuous access to the ROW without the use of adjacent roads that are not under the District's control. Measures, including the use of gates, are being considered for the bridge crossings to ensure that motor vehicle access and traffic does not increase as a result of bridge placement.

2.1.3. Waterfowl Nest Boxes

As detailed in Table 2-2, a total of six nest boxes were in service during 2011, and two were used by cavity nesting waterfowl. Bear damage, evident during past years, did not occur to any boxes monitored during 2011. One of the boxes was used by a Douglas squirrel when checked in late summer and therefore may not have been available to nesting waterfowl. As discussed and requested by WDFW staff at prior annual meetings (under the Wildlife Habitat Management Plan), native squirrels are left undisturbed in nest boxes. Figure 2-4 shows locations of existing nest structures.

Table 2-2. Waterfowl Nest Box Use on Lost Lake Tract in 2011

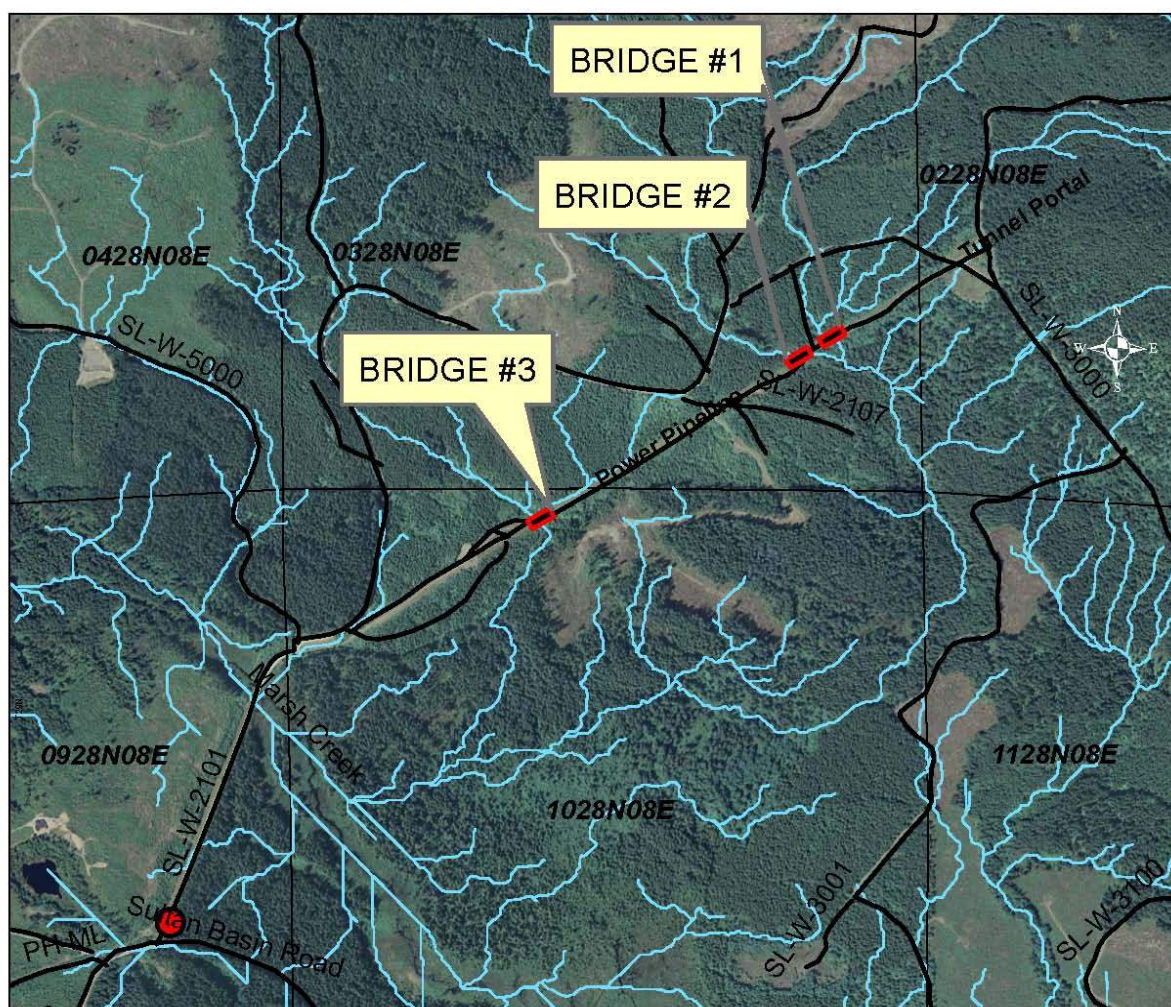
Boxes Available	Boxes Used by Waterfowl	Box Success (# boxes that fledged ≥ 1 egg)	Number fledged by species	Total Fledged
6	2 (33%)	2 (33%)	1 box fledged 6 of 7 Wood Ducks 1 box fledged 8 of 8 Wood Ducks	14 Wood Ducks

2.1.4. Lake, Wetland and Stream Buffers

Activities occurring within buffers included nest box maintenance and woody habitat structure creation, as detailed in previous sections of this document. The buffer restrictions for snags, DLT and CWD described in Table 2.2 of the TRMP were followed.

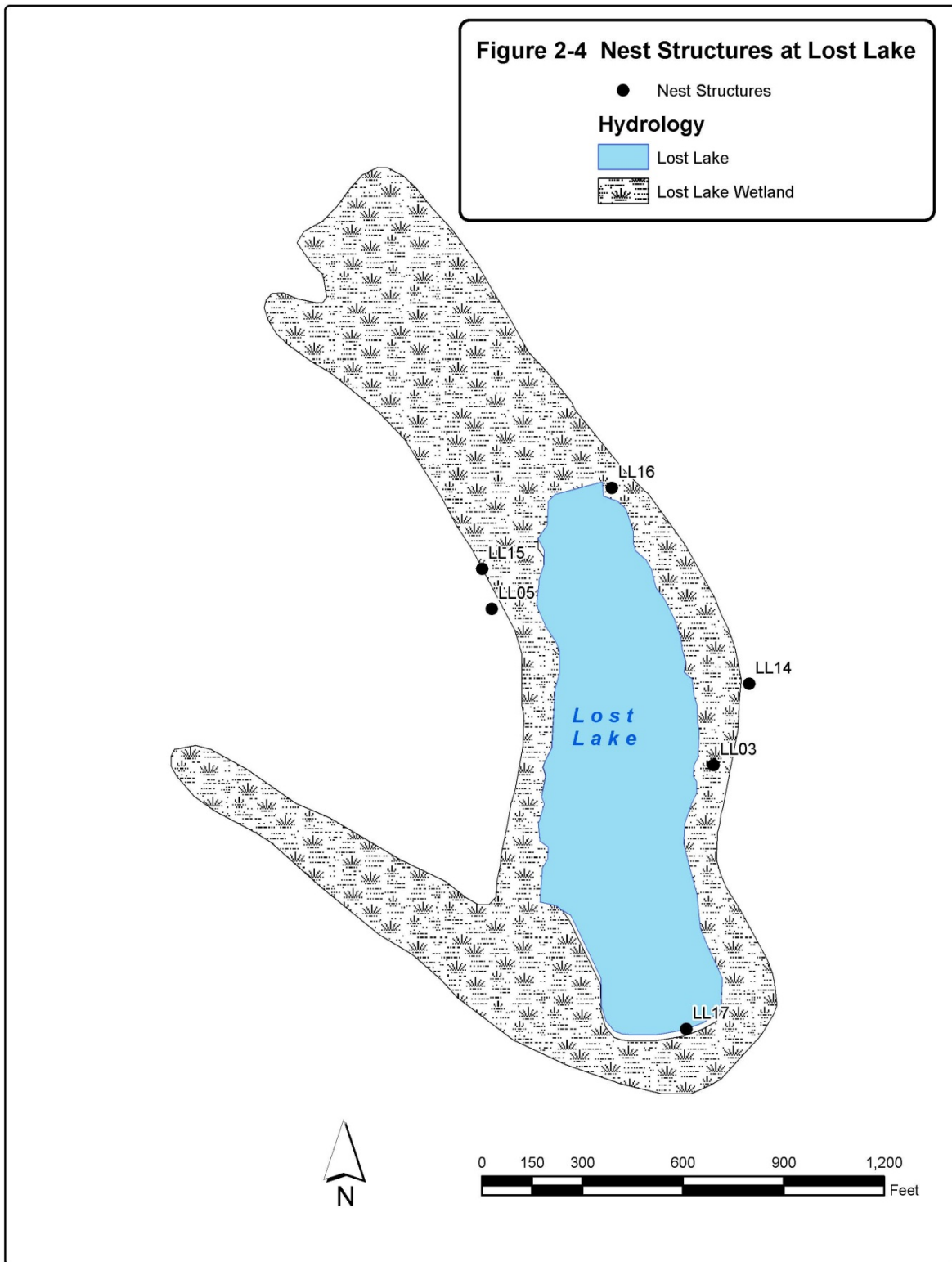
2.1.5. Good Stewardship Activities or Observations of Note

Though potentially overshadowed in the annual report by proactive management, one of the key elements of the TRMP is the protection of old growth forests, wetlands and riparian forest on the four tracts of land. The TRMP requires the preservation of 502 acres of existing old growth forest and promotion of old growth characteristics on 1,119 acres of second growth conifer forest. Approximately 57 acres of riparian forest and 40 acres of wetlands are protected from human disturbance and maintained as high-quality habitat under the TRMP. All management activities in 2011 considered these objectives. These habitat types were protected and managed with minimal intervention. No overstory thinning, gap creation, snag creation or coarse woody debris creation occurred in old growth forest.



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Date: 2/27/2012

Figure 2-3. Locations for Potential Bridges on Power Pipeline ROW



District wildlife biologists met with Jackson Project staff to inform and educate regarding the TRMP and worked with them throughout the year to ensure compliance with the TRMP.

Some incidental observations of wildlife species by District wildlife biologists and knowledgeable City of Everett personnel on TRMP lands are listed in Table 2-3. This partial list of observations is not the result of systematic surveys for wildlife, but is included in this report to document the presence of these species on management lands.

Table 2-3. Incidental Wildlife Observations in 2011

DESCRIPTION	LOCATION	DATE
Osprey	Powerhouse site – one on nest near microwave tower and one on perch at nest	April 27
Osprey	Powerhouse site – on nest near microwave tower	May 2
Osprey	In nest west of Spada Lake Tract on NFS lands	May 10
Osprey	Powerhouse site – on perch at nest near microwave tower	June 2
2 adult Canada Geese, 4 goslings	Spada Lake Reservoir near log boom; frequently seen foraging on dam as well	June 18
4 Osprey	Pipeline ROW – 4 osprey alternately flying and perching on nest platform near microwave tower	June 21
Deer – 1 doe, 1 fawn, 1 four pt buck	Powerhouse site – near microwave tower	June 29
Western toad	On road just past Bear Creek Recreation Site	July 8
Osprey	One osprey on branch below nest flapping its wings and calling. Second osprey heard. This is same nest seen on 5 May 2011.	August 18
Common loon	On Spada Lake Reservoir, heard from Bear Creek Recreation Site and seen out from Nighthawk Site	August 26
Osprey	On shorter snag in Spada Lake Reservoir out from Bear Creek Recreation Site	August 26
Pika	Heard just west of Bear Creek Recreation Site	August 26
Northern Goshawk	Attacking 2 Douglas squirrels that had been chasing each other around large Hemlock tree; NW corner of Lost Lake Tract. Unknown result.	December 8

2.2. TRMP WORK PLANNED FOR 2012

2.2.1. Snags, Decaying Live Trees and Coarse Woody Debris

Creation of snags/DLT/CWD will be completed on stand 7-1 on the Lost Lake Tract, and will continue on the Spada Lake Tract. The focus will be on stands where snags were created more than 10 years ago, as well as, on stands where snag creation has not yet occurred.

Approximately 200 acres per year will be evaluated and have woody habitat structures created, as needed, to meet the 10-year cycle laid out in the TRMP.

2.2.2. Rights-Of-Way Management

Right-of-way (ROW) management in 2012 will consist primarily of noxious and invasive weed control, and may also include soil amendment utilizing biosolids from the City of Everett waste water treatment facility, if available. All disturbed or amended soils will be promptly seeded with a mixture of non-invasive, weed-free grasses and forbs as listed in Table 2.5 of the TRMP.

Additionally, a portion of the ROW near the tunnel portal received heavy off-road vehicle damage during the winter of 2011 as a result of gates being left open to permit firewood cutting on adjacent DNR lands. Gates were closed by the DNR at the end of 2011. If firewood cutting is permitted in the area in future years, the DNR has committed to attempting to keep the gates closed to non-authorized users. Ruts will be smoothed and the area over-seeded in spring of 2012.

2.2.3. Waterfowl Nest Boxes

Nest boxes on the Lost Lake Tract will be repaired as needed and readied for the 2012 nesting season by the end of February. Nest boxes will be checked soon after the end of the nesting season to avoid disturbing nesting waterfowl and to ensure accurate determination of use, as specified in the TRMP.

2.2.4. Lake, Wetland and Stream Buffers

Aside from woody habitat structure creation and nest box maintenance, as summarized in this report and detailed in the TRMP, no other activities are planned in buffer zones. The District and its contractor will adhere to the buffer restrictions described in Table 2.2 of the TRMP.

2.3. TRMP ISSUES OR PROPOSED CHANGES

No issues have come up during the 2011 initiation of TRMP implementation. No changes are proposed to the TRMP.

2.4. TRMP CUMULATIVE SUMMARY

In future reports, a cumulative summary for the 5-year periods leading up to the FERC filing will be included in this section. The next filing of the Terrestrial Resources Report with the FERC will be in 2016, covering 2011 through 2015 implementation activities.

3. NOXIOUS WEED MANAGEMENT PLAN

3.1. NWMP WORK COMPLETED IN 2011

Due to water quality concerns, noxious weeds and invasive species found within the Spada Lake, City of Sultan (on the Pipeline ROW) and Lost Lake watersheds were treated with a non-synthetically derived herbicide (20% acetic acid) by licensed contract herbicide applicators. This is a non-selective herbicide (it will kill or damage any plant that it contacts), and is non-systemic (it only effects the portion of the plant that it touches, and is not translocated to the root system). Using this type of herbicide requires repeat applications, as it is not as effective as systemic herbicides, but is considered safer for water quality by the City of Everett.

Areas outside of the above mentioned watersheds were treated with synthetic herbicides that are systemic and selective, and likely require fewer re-treatments. All treatments were performed by licensed contract herbicide applicators.

Areas of the Jackson Project that are disturbed and weed-prone, where noxious weeds have been observed (particularly during the 2007 noxious weed surveys), and sites that have been previously treated were visited in 2011 to treat noxious weeds. All areas treated in 2011, with the exception of Lost Lake, were visited and re-treated several times during the growing season. Treatment locations are captured and recorded using a GPS device, with that data then incorporated into the District's GIS database, which allows tracking of historical occurrences and treatment efforts to guide the following year's management.

District biologists met with Jackson Project staff to inform and educate regarding the NWMP and worked with them to ensure that the NWMP was being followed. District biologists and Project staff reviewed the poster and booklet (developed in 2009 in anticipation of NWMP implementation) containing photos and descriptions of the noxious weeds known to occur at the Project.

3.1.1. Lost Lake Tract Treatment and Monitoring

Roads and the boat launch area at Lost Lake were visually inspected for noxious and invasive species several times during the growing season. Particular attention was paid to areas identified in the 2007 Noxious Weed Survey. Species of weeds observed included herb Robert, Canada thistle and Himalayan and evergreen blackberry. They were treated with 20% acetic acid, applied by licensed contract herbicide applicators.

3.1.2. Spada Lake Tract Treatment and Monitoring

Weeds most commonly found along roads on the Spada Lake Tract are Canada thistle and oxeye daisy. Culmback Dam had large infestations of hawkweed and smaller patches of Scotch broom. Applications of organic herbicides were made to these infestations, with many of the treated plants showing top-kill for some time after treatment. Seed production was prevented in nearly all cases. Additionally, on Culmback Dam, several large areas were mechanically scraped to a depth of six inches, in an intensive effort to remove all vegetative portions of hawkweed within the extremely dense patches. Materials were transported off site to a location where conventional herbicides can be used to treat any re-growth; new gravel was then applied at this location.

3.1.3. Williamson Creek Tract Treatment and Monitoring

The Williamson Creek Tract was not visited in 2011. Wetter than typical spring and early summer weather resulted in a shorter weed treatment season; as a result, other, more easily accessible areas were treated for noxious weeds.

3.1.4. Project Facility Lands Treatment and Monitoring

The pipeline ROW was searched for noxious and non-native invasive weeds during 2011. Typical weeds found were Canada thistle, hawkweed, Scotch broom, Himalayan blackberry, and tansy ragwort. Off-road vehicle use of portions of the ROW continued to be a persistent problem, creating areas of open soil prone to weed seed germination. These areas were over-seeded with a grass/clover mix when discovered and monitored to ensure weeds did not become established.

Noxious weeds on the transmission line ROW within the Project Facility Lands Tract were sprayed several times during the growing season, with the primary species found here being English holly, thistle and blackberry species. Adjacent to this ROW was a small patch of locust trees, which were cut and stump treated with herbicide.

3.1.5. Annual Review of Noxious Weed List

The District reviewed the County's annual updated weed list for 2011. No changes were made to the County or State noxious weed lists that impacted weed control on Project lands.

3.1.6. Update of Species-Specific Management Methods

No updates to specific management methods are proposed. Cultural methods to prevent new infestations or reduce existing infestations continue to be employed including seeding and placing straw on open or disturbed soils as soon as possible. Where infestations exist, herbicides remain the treatment of choice due to the size and variety of locations.

3.2. NWMP WORK PLANNED FOR 2012

Areas of the Jackson Project that are disturbed and weed-prone, where noxious weeds have been observed, and sites that have been previously treated will be visited to record occurrences of noxious weeds. Contract herbicide applicators will again be used to apply herbicides. To reduce the likelihood of increasing infestation size or spreading weed propagules to new areas, weeds will be treated to the extent possible prior to ground-disturbing activities.

District biologists will continue to work with Jackson Project staff to facilitate implementation of the NWMP.

3.3. NWMP ISSUES OR PROPOSED CHANGES

No issues have come up and no changes are proposed at this time. Any changes to the list of weeds requiring control, based on changes to the State and County weed lists, may necessitate changes to the NWMP.

3.4. NWMP CUMULATIVE SUMMARY

In future reports, a cumulative summary for the 5-year periods leading up to the FERC filing will be included in this section. The next filing of the Terrestrial Resources Report with the FERC will be in 2016, covering 2011 through 2015 implementation activities.

4. MARBLED MURRELET HABITAT PROTECTION PLAN

4.1. MMHPP WORK COMPLETED IN 2011

Project-related activities conducted in the Spada Lake Basin and on other Project lands during 2011 were conducted according to the MMHPP. Plans and activities were prepared or modified as needed to comply with the MMHPP. These activities included:

- Planning for the Marsh Creek Slide Modifications under License Article 402
- Planning for Side Channel Enhancement under License Article 404
- Preparation for implementing the Whitewater Recreation Plan under License Article 412
- Replacing the valve on the auxiliary line at Culmback Dam to support water temperature conditioning under License Article 415
- Replacing culverts on the South Shore Road to support the Recreation Resource Management Plan (RRMP)
- Flying toilets out of the Bear Creek and Nighthawk Recreation Sites to support the RRMP
- Conducting snow surveys to support operation and water supply planning
- Planning of the Sultan River Canyon Trail under the RRMP
- Planning of the New Recreation Site at Spada Lake Reservoir under the RRMP
- Hazard tree maintenance activities to support operation and maintenance
- Implementation of the TRMP
- Implementation of the NWMP

District biologists met and had numerous conversations with Jackson Project staff to inform and educate, and ensure compliance with the MMHPP.

4.2. MMHPP WORK PLANNED IN 2012

The District biologists will continue to stay informed of Project-related activities that might affect marbled murrelets and their habitat, and advise and educate those working on the Project of the MMHPP requirements. Planning of the Sultan River Canyon Trail and upgrades and modification to the 6122 road will continue in 2012, and will incorporate the restrictions in the MMHPP. Implementation of the Marsh Creek Slide Modification will be monitored to ensure that protection measures are carried out.

4.3. MMHPP ISSUES OR PROPOSED CHANGES

No issues have come up and no changes are proposed for the MMHPP.

4.4. MMHPP CUMULATIVE SUMMARY

In future reports, a cumulative summary for the 5-year periods leading up to the FERC filing will be included in this section. The next filing of the Terrestrial Resources Report with the FERC will be in 2016, covering 2011 through 2015 implementation activities.

APPENDIX A

Agency Correspondence

Annual Meeting Notice from District to Agencies

From: Bedrossian, Karen

Sent: Tuesday, February 28, 2012 9:53 AM

To: 'Applegate, Brock A (DFW)'; Tim_Romanski@fws.gov; Michael Seigny (mseigny@tulaliptribes-nsn.gov); Sonny Gohrman (sonny.gohrman@co.snohomish.wa.us); Julie Sklare; Laurie Bergvall (laurie.bergvall@dnr.wa.gov); Sonny Paz; Prince, Sarah A; Travis.Miranda@dnr.wa.gov

Cc: Daryl Williams (dwilliams@tulaliptribes-nsn.gov); Eric Ozog (eozog@fs.fed.us); Schutt, Mike; Binkley, Keith

Subject: Jackson Project Terrestrial Resources 2011 Annual Report Meeting

Greetings,

Snohomish County PUD is in the process of preparing the annual report for Jackson Hydroelectric Project Terrestrial Resources. This report includes a summary of the activities accomplished during 2011 and those proposed for 2012, for the Terrestrial Resource Management Plan (TRMP), Noxious Weed Management Plan (NWMP), and the Marbled Murrelet Habitat Protection Plan (MMHPP). These plans can be found on the PUD's web site at

<http://www.snopud.com/PowerSupply/hydro/jhprelicense/jhprdocre/mgmtplans.ashx?p=1891> .

This is the first annual report under our new Jackson Project license. The summary report will not go to FERC until 2015 (every five years). Under the new license, the report includes the Lost Lake Tract, Project Facility Lands Tract, Spada Lake Tract, and Williamson Creek Tract. The report and the meeting this year will not include the Lake Chaplain tract which is now under an off license agreement between the City of Everett, Washington Department of Fish and Wildlife and the PUD.

We are offering a meeting to discuss the contents of the annual report, after we send it out for you to review. You should be receiving the draft report before or on March 19. The due date for comments will be April 16 (four weeks after you receive it). I am looking at March 28 or 29, or April 3 or 4 to hold the meeting. That should give you plenty of time to look it over and see if you have any questions or want to discuss anything regarding the report or implementation of the plans. We did not identify any problems or issues.

This year, we will be holding the meeting at the Jackson Powerhouse, or the PUD's Everett office, depending on if anyone wants to tour any of the Project tracts.

Please respond to me as soon as possible, but no later than March 8, and let me know if:

- you would like to attend a meeting
- you want a tour of Project lands
- your availability on March 28, 29, April 3 or 4.

Please let me know, even if you are not planning to attend the meeting.

Please forward this on to any representative of your organization that you think should attend.

Thank you,
Karen

Karen Bedrossian
Senior Environmental Coordinator
Snohomish County PUD

425 783-1774

Draft 2011 Annual Report for Agency Review

From: Bedrossian, Karen

Sent: Thursday, March 15, 2012 5:25 PM

To: 'Applegate, Brock A (DFW)'; 'Tim_Romanski@fws.gov'; Michael Sevigny (msevigny@tulaliptribes-nsn.gov); Sonny Gohrman (sonny.gohrman@co.snohomish.wa.us); Sonny Paz; Julie Sklare; Prince, Sarah A; Travis.Miranda@dnr.wa.gov; MCGUIRE, AL (al.mcquire@dnr.wa.gov); Mark Hitchcock

Cc: Daryl Williams (dwilliams@tulaliptribes-nsn.gov); Eric Ozog (eozog@fs.fed.us); Laurie Bergvall (laurie.bergvall@dnr.wa.gov); Schutt, Mike; Binkley, Keith

Subject: Draft Terrestrial Resources 2011 Annual Report for Jackson Hydroelectric Project FERC 2157 for your review

Attached for your review is the draft Terrestrial Resources 2011 Annual Report for the Jackson Hydroelectric Project (FERC 2157). Comments are due to Karen Bedrossian (klbedrossian@snopud.com) no later than April 16, 2012.

This is the first annual report under our new Jackson Project license. FERC will receive a five-year summary for work accomplished from 2011 – 2015 in 2016. This report includes a summary of the activities accomplished during 2011 and those proposed for 2012, for the Terrestrial Resource Management Plan, Noxious Weed Management Plan, and the Marbled Murrelet Habitat Protection Plan. These plans can now be found on the PUD's web site at <http://www.snopud.com/PowerSupply/hydro/jhp/jhplicense.ashx?p=1978>.

We will be meeting to discuss the report and answer any questions on Thursday, March 29 at 10:00 am at the Jackson Powerhouse (please RSVP to me by March 22 to confirm you are attending the meeting and want to take the tour. Also, let me know if you have any comments that you would like addressed at the meeting). I expect the meeting will last about an hour. We can take those of you who are interested, to the Lost Lake Tract and/or Project Facility Lands Tract following the meeting. If you plan on participating in the tour, please be sure to bring a lunch and dress for the weather. I have attached a Jackson Project map with the Powerhouse address and location.

You are welcome to call or email anytime during your review.

Karen

Karen Bedrossian
Senior Environmental Coordinator
Snohomish County PUD
425 783-1774

Draft 2011 Annual Meeting Notes for Agency Review

From: Bedrossian, Karen

Sent: Thursday, April 05, 2012 4:06 PM

To: 'Tim_Romanski@fws.gov'; 'Applegate, Brock A (DFW)'; MCGUIRE, AL (al.mcquire@dnr.wa.gov); 'Mark Hitchcock'; Schutt, Mike

Subject: Notes for your review from our March 29, 2012 Meeting Regarding Jackson Project Terrestrial Resources

Hi,

Please review the attached meeting notes and send any comments or questions you might have back to me. The notes will be included as an appendix to the final 2011 Annual Report. I will need your comments on these meeting notes and on the draft 2011 Annual Report no later than April 16, 2012 so that I can complete the final report. If I do not hear from you by April 16, I will assume that you concur with the notes and the Annual Report.

Thank you for participating in our Jackson Project Annual Terrestrial Resources meeting. Both Mike and I think it was a very productive meeting!

Karen

Karen Bedrossian
Senior Environmental Coordinator
Snohomish County PUD
425 783-1774

USFS and District Discussion of Annual Report

From: Paz, Sonny -FS [mailto:spaz@fs.fed.us]
Sent: Thursday, April 12, 2012 11:16 AM
To: Bedrossian, Karen
Cc: Ozog, Eric -FS
Subject: RE: Draft Terrestrial Resources 2011 Annual Report for Jackson Hydroelectric Project FERC 2157 for your review

Karen,
Thanks for your reply and for sending the draft meeting notes. I was interested in any discussion that was presented by the regulatory agencies regarding activities in murrelet habitat. Please continue to forward correspondence to Eric.

Sonny

From: Bedrossian, Karen [mailto:KLBedrossian@snopud.com]
Sent: Thursday, April 12, 2012 10:56 AM
To: Paz, Sonny -FS
Cc: Ozog, Eric -FS
Subject: RE: Draft Terrestrial Resources 2011 Annual Report for Jackson Hydroelectric Project FERC 2157 for your review

Hi Sonny,

I have attached the draft meeting notes. They have not yet been approved by the participants so that is why I did not send them out to everyone. USFS did not ask to participate in implementation of the TRMP or MMHPP (none of the TRMP lands are on NFS lands). The NWMP was the only terrestrial plan for which future participation was requested. USFS is included in the RRMP, of course, and for any activities that occur on NFS lands. Implementation of the RRMP involving development of the Sultan River Canyon Trail (SRCT) and modifications to the 6122 road will involve elements of the MMHPP.

Let me know if you have additional questions, or want to discuss it further. I am working on a map of the 6122 Road and SRCT that shows the results of the murrelet surveys (included in the MMHPP) and the location of the planned work. It needs a few more edits and then I will be sending it to Eric. I can send it to you as well, or Eric can pass it along.

Karen

Karen Bedrossian
Senior Environmental Coordinator
Snohomish County PUD
425 783-1774

From: Paz, Sonny -FS [<mailto:spaz@fs.fed.us>]
Sent: Thursday, April 12, 2012 10:29 AM
To: Bedrossian, Karen
Cc: Ozog, Eric -FS
Subject: RE: Draft Terrestrial Resources 2011 Annual Report for Jackson Hydroelectric Project FERC 2157 for your review

Hello Karen,
I reviewed the draft 2011 Annual Report. I was wondering if there was discussions/questions by the FWS, WDFW, or others about 2011 work accomplished in murrelet habitat during your March 29 stakeholder meeting. The draft report doesn't really say much to me from my perspective but it's probably presented that way since FWS, WDFW, and others are more familiar with the hydro project. Otherwise I don't have any other comments about the report.

Regards,

Sonny
Wildlife biologist
Office: 425-888-8757

From: Bedrossian, Karen [<mailto:KLBedrossian@snopud.com>]
Sent: Thursday, March 15, 2012 5:25 PM
To: 'Applegate, Brock A (DFW)'; 'Tim_Romanski@fws.gov'; Michael Sevigny (msevigny@tulaliptribes-nsn.gov); Sonny Gohrman (sonny.gohrman@co.snohomish.wa.us); Paz, Sonny -FS; Julie Sklare; Prince, Sarah A -FS; Travis.Miranda@dnr.wa.gov; MCGUIRE, AL (al.mcquire@dnr.wa.gov); Mark Hitchcock
Cc: Daryl Williams (dwilliams@tulaliptribes-nsn.gov); Ozog, Eric -FS; Laurie Bergvall (laurie.bergvall@dnr.wa.gov); Schutt, Mike; Binkley, Keith
Subject: Draft Terrestrial Resources 2011 Annual Report for Jackson Hydroelectric Project FERC 2157 for your review

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This is the first annual report under our new Jackson Project license. FERC will receive a five-year summary for work accomplished from 2011 – 2015 in 2016. This report includes a summary of the activities accomplished during 2011 and those proposed for 2012, for the Terrestrial Resource Management Plan, Noxious Weed Management Plan, and the Marbled Murrelet Habitat Protection Plan. These plans can now be found on the PUD's web site at <http://www.snopud.com/PowerSupply/hydro/jhp/jhpllicense.ashx?p=1978>.

We will be meeting to discuss the report and answer any questions on Thursday, March 29 at 10:00 am at the Jackson Powerhouse (please RSVP to me by March 22 to confirm you are attending the meeting and want to take the tour. Also, let me know if you have any comments that you would like addressed at the meeting). I expect the meeting will last about an hour. We can take those of you who are interested, to the Lost Lake Tract and/or Project Facility Lands Tract following the meeting. If you plan on participating in the tour, please be sure to bring a lunch and dress for the weather. I have attached a Jackson Project map with the Powerhouse address and location.

You are welcome to call or email anytime during your review.

Karen

Karen Bedrossian
Senior Environmental Coordinator
Snohomish County PUD
425 783-1774

WDFW and District Discussion of Draft Meeting Notes

From: Bedrossian, Karen
Sent: Wednesday, April 18, 2012 5:42 PM
To: 'Applegate, Brock A (DFW)'
Cc: Binkley, Keith; Schutt, Mike; Milner, Ruth L (DFW)
Subject: RE: Notes for your review from our March 29, 2012 Meeting Regarding Jackson Project Terrestrial Resources

Hi Brock,

I am just finishing up the report and notes, so your timing was great.

I incorporated all of your other comments. I added some clarification to the duck box discussion about keeping the preseason and June visits, and adding the May visit.

We will send you the final document before the end of the month.

Thanks for your participation.

Karen

Karen Bedrossian
Senior Environmental Coordinator
Snohomish County PUD
425 783-1774

From: Applegate, Brock A (DFW) [<mailto:Brock.Applegate@dfw.wa.gov>]
Sent: Wednesday, April 18, 2012 5:04 PM
To: Bedrossian, Karen
Cc: Binkley, Keith; Schutt, Mike; Milner, Ruth L (DFW)
Subject: RE: Notes for your review from our March 29, 2012 Meeting Regarding Jackson Project Terrestrial Resources

Hi Karen, Sounds good. Would much rather have good natural snags than artificial nest boxes.

For some reason, I did not hear you about not wanting to duplicate the Youngs Creek box maintenance program (minus keeping the native squirrels). Cavity nesting duck are a Priority Species for us.

Thanks for arranging the meeting and site visit and taking meeting notes.

Sincerely, Brock

Brock Applegate
Renewable Energy Mitigation Biologist
Washington Department of Fish and Wildlife
P.O. Box 1100
111 Sherman St. (physical address)
La Conner, WA 98257-9612

(360) 466-4345 x254
(360) 789-0578 (cell)
(360) 466-0515 (fax)

From: Bedrossian, Karen [<mailto:KLBedrossian@snopud.com>]

Sent: Tuesday, April 17, 2012 1:40 PM

To: Applegate, Brock A (DFW)

Cc: Binkley, Keith; Schutt, Mike

Subject: RE: Notes for your review from our March 29, 2012 Meeting Regarding Jackson Project Terrestrial Resources

Hi Brock,

Mike and I have discussed this and looked at our notes. You suggested that we use the same protocol as at Youngs Creek. The Youngs Creek WHMP calls for visiting the nest boxes every two weeks initially. We stated in the meeting that we do not have the budget or resources for that, nor did we think that is necessary at Lost Lake. We all agreed in our discussion that we would keep the early season visit to clean out and repair the boxes, add another visit in early May, and keep the June visit. I looked at the Youngs Creek protocol to see how I could meet your request in some way, but, the Youngs Creek WHMP also allows for native species to remain in the box, and you and Tim agreed that only waterfowl species would be allowed to remain in the boxes at Lost Lake.

We did agree to leave additional trees dedicated to CWD standing, as snags or decaying live trees, which will incur an estimated additional cost of \$40 dollars per acre, over the entire TRMP land base that is managed for CWD. This is a considerable concession, which we accepted in the spirit of mutual compromise and good stewardship. Please remember that the specifics of the TRMP have already been negotiated and accepted as part of the Settlement Agreement and new license.

I trust that you will find this to be a practical and acceptable approach to implementing the TRMP.

Best Regards,
Karen

Karen Bedrossian
Senior Environmental Coordinator
Snohomish County PUD
425 783-1774

From: Applegate, Brock A (DFW) [<mailto:Brock.Applegate@dfw.wa.gov>]

Sent: Monday, April 16, 2012 11:05 AM

To: Bedrossian, Karen; 'Tim_Romanski@fws.gov'; MCGUIRE, AL (DNR); 'Mark Hitchcock'; Schutt, Mike

Cc: Milner, Ruth L (DFW); Bails, Jamie L (DFW)

Subject: RE: Notes for your review from our March 29, 2012 Meeting Regarding Jackson Project Terrestrial Resources

Hi Karen, Please see the attached edited notes for our comments. I may have misunderstood that you agreed to the language created in the Youngs Creek project for the maintenance protocol. Let me know if we need to discuss further. I like the protocol because it has already been approved by regional staff including the district wildlife biologist, Ruth Milner. I will be in a meeting after lunch, if you have a hard time getting a hold of me. I will be in tomorrow.

Thanks again for disbursing the meeting notes for our review and for the reality check after vacation.

PS I have included Jamie on the CC because of our field visit to the proposed bridges on the ROW of the powerlines.

Sincerely, Brock

Brock Applegate
Renewable Energy Mitigation Biologist
Washington Department of Fish and Wildlife
P.O. Box 1100
111 Sherman St. (physical address)
La Conner, WA 98257-9612

(360) 466-4345 x254
(360) 789-0578 (cell)
(360) 466-0515 (fax)

From: Bedrossian, Karen [<mailto:KLBedrossian@snopud.com>]

Sent: Thursday, April 05, 2012 4:06 PM

To: 'Tim_Romanski@fws.gov'; Applegate, Brock A (DFW); MCGUIRE, AL (DNR); 'Mark Hitchcock'; Schutt, Mike

Subject: Notes for your review from our March 29, 2012 Meeting Regarding Jackson Project Terrestrial Resources

Hi,

Please review the attached meeting notes and send any comments or questions you might have back to me. The notes will be included as an appendix to the final 2011 Annual Report. I will need your comments on these meeting notes and on the draft 2011 Annual Report no later than April 16, 2012 so that I can complete the final report. If I do not hear from you by April 16, I will assume that you concur with the notes and the Annual Report.

Thank you for participating in our Jackson Project Annual Terrestrial Resources meeting. Both Mike and I think it was a very productive meeting!

Karen

Karen Bedrossian
Senior Environmental Coordinator
Snohomish County PUD
425 783-1774

APPENDIX B

Terrestrial Resources 2011 Annual Report Meeting Notes

TERRESTRIAL RESOURCES 2011 ANNUAL REPORT MEETING
29 March 2012

**Snohomish County PUD Jackson Hydroelectric Powerhouse,
Project Facility Lands Tract and Lost Lake Tract**

MEETING NOTES

PURPOSE OF MEETING: To discuss the Terrestrial Resources 2011 Annual Report, ask questions regarding implementation, address concerns if needed, and visit Terrestrial Resource Management Plan (TRMP) tracts as requested and as accessible.

ATTENDEES:

U. S. Fish and Wildlife Service (USFWS): Tim Romanski (by phone)
Washington Department of Fish and Wildlife (WDFW): Brock Applegate
Washington Department of Natural Resources (DNR): Allen McGuire
City of Everett (City): Mark Hitchcock
Public Utility District No. 1 of Snohomish County (District): Karen Bedrossian, Mike Schutt

1. INTRODUCTION AND MEETING PLAN

This is the first annual report and meeting regarding terrestrial resources, under the new Federal Energy Regulatory Commission (FERC) Jackson Project license issued in 2011. The new annual report format includes a summary of the activities conducted under the TRMP, Noxious Weed Management Plan (NWMP) and Marbled Murrelet Habitat Protection Plan (MMHPP). The final 2011 Annual Report will be submitted to the resource agencies in April 2011. A five- year summary report will be submitted to the FERC in 2016, covering activities conducted from 2011 through 2015. The proposed agenda for this meeting included a PowerPoint presentation of activities conducted during 2011; discussion of questions or comments regarding implementation activities, and the Annual Report draft (which was sent to the agencies for review on March 15, 2012); and a site visit to the Penstock Right-of-way (ROW) where bridge installation is planned, and to the Lost Lake Tract to look at forest gaps created as part of the TRMP.

2. DISTRICT PRESENTATION AND QUESTIONS REGARDING TERRESTRIAL RESOURCES 2011 ANNUAL REPORT AND IMPLEMENTATION

The District presentation consisted of photos and discussion of TRMP activities including: soils amendment, seeding and plantings, snag, decaying live tree (DLT), coarse woody debris (CWD), and gap creation. Photos were specifically included of the Spada Lake Tract since snow levels prevented access for a site visit as part of the meeting. Photos of activities conducted as part of the NWMP were presented. Implementation of the MMHPP related to various activities conducted as part of the Jackson Project was discussed. The following questions were asked and discussed during and after the presentation.

WDFW: Requested that when creating CWD, leave it standing as a snag or DLT and let it fall naturally over time.

The issue was discussed and examples were provided. It was generally agreed that the District will leave trees standing that are selected for CWD as long as it does not create a safety hazard, and as long as leaving the tree standing will let enough light into the associated gap. Consideration will also be given to the need for CWD on the forest floor. The District pointed out that it will be more expensive to leave the trees standing which may mean that fewer structures can be created. USFWS and WDFW suggested girdling the small trees and leaving the larger trees for DLTs, preferably through live-topping. The final decision will be left up to the District biologist in the field, considering all of the mentioned objectives and factors.

WDFW: Requested clarification in the annual report regarding Section 2.1.1, Paragraph 3, and the discussion of gap sizes at Spada Lake and Lost Lake tracts. District agreed to edit that section to make it clearer.

USFWS: Is the District revisiting snag and gap sites to monitor results? When gaps and woody habitat structures are created the District does a qualitative assessment and photo documentation. (Note that monitoring of gaps is covered on pages 64-66 of the TRMP.)

WDFW: Is there a need for roads to be reopened in order to conduct forest management activities?

The District stated that there is no need to reopen roads and gave examples of past management strategies to avoid reopening or creating new roads.

WDFW: What is the need for the proposed bridges on the Penstock Right-of-Way (ROW)? WDFW had concerns about increased trespass by off-road vehicles (ORV) that could cause more soil and vegetation damage on the ROW. DNR abandoned the portion of the road that had historically been used to access part of the Penstock ROW near the tunnel portal. The District needs access all along the ROW in all weather conditions, day or night for emergency situations and repairs. The District explained that ORVs have problems crossing the creeks due to steepness, and gates or some other method of restricting access will be put in place. See 3a.

WDFW: How often are we checking the waterfowl nest boxes?

Group discussed the waterfowl nest boxes, how often to check them and what to do if native squirrels use them. It was agreed that the District will continue to visit the boxes prior to the nesting season to check their condition, clean them and provide fresh nesting material. A visit in early May will be added to check the boxes for occupancy. The June check will continue to capture data as soon as possible following the breeding season. Both WDFW and USFWS said that even native squirrels should be removed from the nest boxes when they are discovered during monitoring.

WDFW: Is there a problem with noxious weeds at Williamson Creek?

The noxious weeds at Williamson Creek include hawkweed and oxeye daisy, which are found along the old road grade.

Group discussed ORV damage to the ROW in the tunnel portal vicinity. Al McGuire requested that District inform him of this type of activity in the future and he can close the area to all motorized users if needed.

USFWS: Requested a field trip (possibly linked to the 6122 Road and Sultan River Canyon Trail construction so that both activities can be accomplished in one trip) to look at some gaps on the Spada Lake tract.

3. FIELD VISIT TO TRMP LANDS

Penstock ROW

WDFW, DNR, City, and PUD representatives drove to Penstock ROW near tunnel portal. Looked at the location for bridges 1 and 2 (two northern most) and discussed need for a JARPA, HPA and SEPA. Group discussed the ORV disturbance to the ROW due to woodcutters abusing their privileges. See 2i. Group discussed solutions for blocking ORVs from using the proposed new bridges and avoiding illegal access. See 2f.

Lost Lake

Drove to Lost Lake and looked at forest gaps. DNR and City suggested that we should under estimate the number of gaps needed because natural blowdown will probably increase the size and number of gaps naturally. They advised considering what will happen over time. It was agreed that gaps could be stacked over time to get the desired results and that gaps could be clumped to achieve more variable habitat overall. Activity on each specific gap should depend on what is there. All approved of live topping, girdling near top of tree for DLTs. WDFW prefers leaving standing snags or DLTs vs falling trees for CWD, as described in 2. b. Gaps should be re-evaluated in 5 and 10 years (per the TRMP monitoring plan).

4. SUMMARY AND ASSIGNMENTS

Karen:

Prepare meeting notes

All Attendees:

Review meeting minutes and reply to Karen by 16 April. Also provide Karen with your comments to the draft Annual Report by 16 April. (No response on either document by 16 April will be considered concurrence.)