LEWIS RIVER WILDLIFE HABITAT MANAGEMENT PLAN ANNUAL PLAN OPERATION PHASE 2009

> Federal Energy Regulatory Commission Project Nos. 935, 2071, and 2111



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# **1.0 Introduction**

This Annual Plan is to fulfill PacifiCorp's obligations for the license's Article 403 and Settlement Agreement 10.8.3. The objective of this plan is to detail the terrestrial protection, mitigation, and enhancement measures that are planned to be implemented on Lewis River Wildlife Habitat Management Plan (WHMP) lands in the following operational year (i.e., January 1 to December 31, 2009). This plan also provides details on available WHMP funding, outlines proposed costs, and demonstrates consistency with the Lewis River WHMP goals and objectives, and state and Federal regulations.

Appendix A is a Gantt chart that provides the timing from each of the WHMP's habitat management and plan-wide goals schedule and estimated effort tables. This chart is to be used as a baseline for scheduling inspections and management actions. Inspections and management that are scheduled to occur in 2009 are listed in the subsequent sections and identified on the Gantt chart.

This plan has been prepared in consultation with the Terrestrial Coordination Committee (TCC). TCC members were provided this report on February 23, 2009 to review and provide comments within 30 days or on March 23, 2009. If these comments were not incorporated into the report then an explanation has been provided and included in Appendix B.

# 2.0 Wildlife Habitat Management Plan Funding

Settlement Agreement 10.8.2.1 describes the annual funding for PacifiCorp lands managed under the WHMP as \$27 (in 2003 dollars, Adjusted for Inflation) per acre owned in fee simple and \$13.50 (in 2003 dollars, Adjusted for Inflation) per acre for other Interests in Land (e.g. conservation easements). As of December 31, 2008 PacifiCorp has 10,058 acres of WHMP lands owned in fee simple and has no Interests in Lands. The 2009 WHMP budget in 2009 dollars will be \$313,398.68 (\$272,295 in 2003 dollars). Appendix C provides the overall 2009 budget, as well as, the budgets for administration, management areas, and plan-wide goals.

# 3.0 Land Acquisition

In accordance with the Settlement Agreement 10.1, 10.2, and 10.3, PacifiCorp has established the Yale Fund and will establish the Swift No. 1 Fund in 2009. The TCC will continue to identify and assess land acquisition opportunities within the vicinity of Yale Project and within 5 miles (8 km) of the Swift project boundary in 2009. As of January 1, 2009 the Yale Land Fund has available \$3,203,742.47. The Swift No. 1 Fund will have \$3,222,000 contributed and available on March 26, 2009. The Lewis Fund will not have a contribution or be available until December 26, 2012.

# 4.0 Administration

### 4.1 WHMP Section 3.1 Terrestrial Coordination Committee

Settlement Agreement Section 14.2.5 requires that the TCC meet at least annually and during the development of the WHMP the TCC met at least monthly. Since the WHMP has been completed and is entering into the implementation phase, it's anticipated that the TCC meetings may be reduced to every other month or quarterly. For 2009 monthly TCC meetings have been scheduled through the first quarter.

### 4.2 WHMP Section 3.3 Annual Report

An Annual Report describing the terrestrial protection, mitigation, and enhancement measures that occurred on WHMP lands during 2008 was submitted to the TCC for the 30-day review on [Insert Date (Anticipated Date March 16, 2009).

### 4.3 WHMP Section 3.4 Annual Plan

The 2009 Annual Plan was submitted to the TCC for 30-day review on February 23, 2009. The TCC comments were addressed and the final copy of the 2009 Annual Plan was submitted to Federal Energy Regulatory Commission on [Insert Date (Scheduled date March 27, 2009)]. The 2010 Annual Plan will be submitted to the TCC for 30-day review by January 29, 2010 and the final copy of the 2009 Annual Plan should be submitted to Federal Energy Regulatory Commission by March 10, 2010.

### 5.0 Old-growth Habitat Management

### **5.1 Inspections**

Old-growth aerial surveys will be conducted concurrently with the aerial osprey (*Pandion haliaetus*) and bald eagle (*Haliaeetus leucocephalus*) nest surveys. It is too difficult to differentiate the cost of old-growth aerial survey hours from the aerial osprey and bald eagle nest survey; therefore the funds budgeted for the osprey and bald eagle nest survey will also cover the cost of the old-growth aerial survey. Ground surveys are not expected to occur in 2009. Initial evaluations are scheduled to occur in license years 2 and 3 (calendar years 2010 and 2011).

### **5.2 Management Actions**

No management actions (i.e., development or connectivity) are expected to occur in 2009.

# 6.0 Wetland Habitat Management

### **6.1 Inspections**

Annual inspections are the only inspections scheduled to occur in 2009. The initial evaluations are scheduled to occur in license years 3 and 4 (calendar years 2011 and 2012). Post-treatment inspections occur 1 year following the implementation of a management action, therefore no post-treatment inspections will be required in year 1 of the WHMP implementation.

### **6.2 Management Actions**

The only management actions scheduled to occur in 2009 is the stop log removal/replacement for bullfrog management and high winter flows, and the review of the Washington Department of Natural Resources Heritage Database. No other management actions are expected to occur in 2009.

# 7.0 Riparian Habitat Management

### 7.1 Inspections

There are no inspections scheduled for 2009. Riparian Mixed Forest Stand Evaluations are schedule to occur in license year 2 and 3 (calendar year 2010 and 2011).

# 7.2 Management Actions

The only riparian habitat management actions that may occur in 2009 are establishing buffers and/or water type modification. A 200-foot (60-m) shoreline buffer and a 150-foot (45-m) stream buffer have been identified for the 2009 timber harvest activities. It is expected that errors in the Washington Department of Natural Resource hydrography data layer (water typing) will be identified on WHMP lands and will need to be corrected.

# **8.0 Shrubland Habitat Management**

### 8.1 Inspections

The initial evaluations are scheduled to be completed in 2009 and the report will be completed in 2010.

### 8.2 Management Actions

No management actions are scheduled for 2009.

### 9.0 Farmland, Idle Areas, and Meadows Habitat Management

### 9.1 Inspections

The annual spring and fall inspections will occur in 2009. The initial evaluations are scheduled to occur in license year 3 (calendar year 2011).

### 9.2 Management Actions

Regularly scheduled annual management actions will occur in 2009. This will include soil testing for Bridge Meadow, Speelyai Meadow, and Saddle Dam farmland fields 1 and 2. Saddle Dam farmland fields, Upper Hanley-Curry, Lower Hanley-Curry, Speelyai, Bridge, Upper McKee, and Lower Mckee Meadows will be mowed and fertilized. The Unit 26 meadow that was restored in 2007 and the 1-acre forage area that was cleared to develop permanent forage within Timber Harvest Area (THA) 082605 will be evaluated to determine if additional fertilizing, mowing, or invasive plant species control is needed to permanently establish the forage. As part of the proposed 2009 forestland management activities, road access will be developed to the unnamed meadow in Unit 17 to allow future and routine management at the meadow. The best approach for improving forage and managing the meadow will be discussed at the TCC on-site meeting to review proposed forestland management actions (see Section 13.2).

# **10.0 Orchard Management**

# **10.1 Inspections**

Annual winter and summer inspections will occur in 2009 at Buncombe Hollow, Saddle Dam #1, Saddle Dam #3, and Saddle Dam Road orchards.

# **10.2 Management Actions**

Dormant pruning is expected to occur at Saddle Dam #1, Saddle Dam #3, and Saddle Dam Road orchards. Buncombe Hollow orchard was pruned in recent years, therefore it is unlikely that trees will require pruning in 2009. Buncombe Hollow Orchard will be mowed to promote forage and reduce invasive plant species. Annual maintenance typically requires replacement plantings and/or exclosure repair.

# **11.0 Transmission Line Right-of-Way Habitat Management**

### **11.1 Inspections**

The initial evaluations will be completed in 2009, which will be in place of the annual inspections.

### **11.2 Management Actions**

Annual mowing for Speelyai Bay, Woodland Park West, and Wilkinson ROW forage areas is the only WHMP management action that will occur in 2009. Vegetation management conducted along the ROW in 2008 sprayed several shrubs in the Speelyai line ROW with herbicide. Some of these shrubs may still have viable stems that can produce basal sprouting for big game forage and may eventually produce a normal size shrub if the upper dead limbs are removed. Speelyai Transmission line ROW 5/14-6/14, 1/15-5/15, 4/16-5/16, 1/17-5/17 will be evaluated in the spring to determine which shrubs still have viable stems. If a shrub is determined to be viable then the dead limbs will be pruned.

This work will be done in addition to the WHMP funds.

# **12.0 Unique Area / Habitat Management**

### **12.1 Inspections**

The annual inspections for oak stands 1-12, 5-1, 5-2, 6-45, 6-52 will occur in 2009 and no other management actions are expected to occur.

### **12.2 Management Actions**

Creating the Unique Area databases in the only management actions expected to occur in 2009.

# **13.0 Forestland Habitat Management**

### **13.1 Inspections**

The annual spring and fall Timber Harvest Area inspections (i.e., reforestation inspections) will occur in 2009.

### **13.2 Management Actions**

#### 2009 Proposed Forestland Practices

Approximately 28.1 acres (14.5 ha) are proposed for clearcutting and 5.7 acres (2.3 ha) for commercial thinning in 2009 in Unit 17. Additionally, 2.3 acres of permanent meadow are proposed to be developed in an area currently vegetation typed as upland deciduous. The Timber Harvest Areas are comprised of 3 areas that are 11.3 ac (4.6 ha), 18.0 ac (7.3 ha), and 4.1 ac (1.7 ha) in size (Appendix D). Appendix D provides information on sensitive species and habitat impacts, maps of the proposed 2009 timber harvest areas, and Wildlife/Forestry Evaluation Forms from the first pre-cut survey.

Approximately 1.47 miles (2.37 km) of new road will be constructed in association with these Timber Harvest Areas. The road will provide access into approximately 300 acres (121.0 ha) of the unit and to the unnamed meadow near Winter Creek Wetlands for future management. The original road, which is currently unimproved and inaccessible to vehicles is the Saddle Dam – Speelyai Canal Equestrian Trail and is within the shoreline buffer in several areas. The new access will be an improved road and will be outside of all riparian, shoreline, and wetland buffers. This area has considerable unauthorized motorized vehicle trespass and improved access will allow the area to be effectively patrolled.

Currently, Management Unit 17 has a cover:forage ratio of 37:63 and approximately 13% or 60.7 acres (24.6 ha) is in permanent forage (i.e., shrublands and meadow). The unit lacks improved forage and most of the existing forage is comprised of shrublands (55.9 acres [22.6 ha]). The initial shrubland inspection (see Section 8.1) is scheduled to be completed this spring and it is expected that these shrublands will be reduced in size or re-vegetation cover typed. The forage quality for the unit is relatively low because of the two seedling/sapling conifer stands (approximately 64 ac [26 ha]) in the western portion of the unit. These stands were purchased during relicensing and logged by the previous land owner in 1999 who did not apply a forage seed mix. Although these areas have been managed by PacifiCorp through pre-commercial thinning, there is a lack of quality forage and the canopy cover is rapidly closing in. The upland deciduous areas proposed for timber harvest do not have a well developed understory and provide limited forage and cover (hiding or thermal).

The intent of the timber harvest areas is to improve overall forage quality/quantity and distribution for big game and benefit other wildlife. The cover:forage ratio will change marginally (depending on initial shrubland inspection results) based on less than 9 acres (27%) conifer forest harvested and most of that being thinned. The timber harvest areas will improve big game habitat in the short term by improving forage quality and quantity with grass and legume forage seeding in the harvest areas and in the long term by growing a well developed understory and conifers to provide cover. Permanent forage would be enhanced at the unnamed meadow by removing encroaching conifers and increasing the size by approximately 1.5 acres (3.7 ha) by expanding into an area dominated by sword fern (*Polystichum munitum*). Overall the

management unit is deficient in snags and large woody debris; therefore snags will be created as part of the timber harvest at approximately 1 tree for every acre harvested.

### 2010 Forestland Harvest Planning

Approximately 36.1 acres (14.6 ha) are proposed for clearcutting in Management Unit 11 in an area within the Spotted Owl Special Emphasis Area (SOSEA) buffer. Management emphasis in this unit is spotted owl habitat and specifically to develop 50% of the WHMP lands within the SOSEA buffer as high quality nesting habitat. Currently this management unit has only 15% high quality nesting habitat which is comprised of 59.4 acres (24.0 ha) of mature conifer forest and no old-growth acres. The proposed harvests will improve forest diversity by removing alder dominated stands and replanting with mixed conifer species (Appendix E). Alternatively, the upland mixed stands (67.6 acres [27.4 ha]) could be examined for enhancing spotted owl habitat. Initial planning during the 2009 first precut surveys in will determine the best forestland management alternatives for these sites. Existing roads will be used for access. Additional forestland management had been planned for an area within the SOSEA but the January 2009 storm eliminated access at this time.

Management Unit 18 currently lacks access for habitat management and a road is proposed for development in 2010 (Appendix E) that would be used in 2011 for forestland management. This road location is preliminary but would also provide improved year-round access to the transmission ROW to address invasive species, enhance ROW forage and address storm damage from 2009.

# First Precut Survey

The first precut survey forms for the 2009 THA's are in Appendix D. The first precut surveys for the 2010 harvest will be completed prior to the end of fall.

### Harvest Area Traverse and Geographic Information System Update

The 2009 Timber Harvest Area will be traversed and the geographic information system database updated following the completion of the timber harvest. The 2010 proposed timber harvest activities will be traversed and entered into the geographic information system database to develop maps for review with the TCC.

### Second Precut Survey

The second precut survey for the 2009 timber harvests will be completed in spring. Appendix D maps show the timber harvest areas delineated boundaries, roads, and sensitive species/habitat, such as riparian, shoreline, and wetland buffers, sharp-shinned hawk (*Accipiter striatus*) nest, northern spotted owl (*Strix occidentalis*) suitable habitat, and vegetation cover types within the proposed harvest area.

### **Terrestrial Coordination Committee**

The TCC on site meeting to review the proposed 2009 timber harvest areas will be scheduled between April 1 and May 31. The unnamed meadow in Unit 17 will be evaluated at this meeting to evaluate the proposed road access, conifer removal, expansion, and future management. Also the proposed 2009 THA that includes an area that is vegetation cover typed as shrubland will be discussed. This area was identified during the THA precut survey and did not appear to meet the shrubland criteria. The THA boundary was tentatively placed within the shrubland until the initial shrubland inspection (see Section 8.1) determines if the area is appropriately vegetation cover typed.

### **Timber Harvest Area Inspections**

A biologist and/or forester will conduct weekly inspections during the logging operations to ensure that the operations are compliant with best management practices, contract conditions, State Forest Practices Act, and industry standards.

### **Regeneration Practices**

Regeneration practices include management actions that promote tree regeneration following timber harvests and maintain big game forage and cover. These practices include site preparation for regeneration, which includes piling residual slash and tractor scarification in the 2009 timber harvest areas to prep the area for forage seeding. The 2009 timber harvest areas will be forage seeded with the clearcut mix by September 30.

### Planting and Maintenance:

The 2009 planting and seedling maintenance activities will include planting the 2008 Timber Harvest Areas and inter-planting or Vexar<sup>®</sup> tubing areas with high seedling mortality due to big game browsing or other mortality. All timber harvest areas that require seedling maintenance in 2009 as listed in Table 13.2.1 and locations are mapped in Appendix F:

	Acres		
Timber Harvest Area	(hectares)	Action	
082603 CC	8.2 (3.3)	Plant Timber Harvest Area with 800 THPL seedlings, 300	
		TSHE and 1360 PSME. Tube THPL.	
082604 CC	11.9 (4.8)	Plant Timber Harvest Area with 1000 THPL seedlings, 400	
		TSHE and 2170 PSME. Tube THPL	
082605 CC	9.2 (3.7)	Plant Timber Harvest Area with 400 THPL seedlings and	
		2400 PSME; 1.0 acre of unit is to be managed as a meadow.	
		Tube THPL.	
991702 CC	1.0 (0.4)	Interplant Timber Harvest Area with 300 PSME seedlings on	
		1 acre that had CYSC removed in 2008.	
860637 CC	4.8 (9.3)	Interplant Timber Harvest Area with 300 THPL seedlings due	
		to moderate root-rot mortality in THA. Tube THPL.	
952008 CC	13.4 (5.4)	Interplant THA with 600 PIPO due to high mortality on lower	
		bench.	

Table 13.2.1 2009 Seedling	g Maintenance (planting	g, Vexar® tube, inter-planting)

Table 13.2.1 2009 Seedling Maintenance (planting, Vexar® tube, inter-planting) (continued)			
Timber Harvest Area	Acres (hectares)	Action	
010443 CC	13.0 (5.3)	Re-tube THPL	
030447 CC	24.6 (10.0)	Re-tube THPL	
030678 CC	7.9 (3.2)	Re-tube THPL, PIPO	
050771 CC	2.3 (0.9)	2.3 (0.9) Re-tube THPL, PIPO	
010837 CC	13.3 (5.3)	13.3 (5.3) Re-tube THPL	
041237 CC	13.8 (5.6) Re-tube THPL, PSME		
051238 CC	25.1 (10.2)	Re-tube THPL	
051239 CC	7.8 (3.2)	Re-tube THPL	
Total Acres	Total Acres48.5 ac (19.6 ha) of planting 107.8 ac(43.6 ha) of re-tube		

#### Invasive Plant Control:

Sulfometuron (Oust<sup>®</sup>) is sprayed in a radius around seedlings as necessary to reduce competition from the grasses. It typically is applied, during the first 1 to 2 years after planting and as needed for interplantings. All timber harvest areas that require Sulfometuron treatment in 2009 are listed in Table 13.2.2 below and locations are identified in Appendix F:

#### Table 33.2.2 2009 Timber Harvest Areas to be treated with Sulfometuron

Timber Harvest Area	Total Acres (hectares)
911231	4.0 (1.6)
050771	2.3 (0.9)
050770	24.9 (10.1)
041237	0.5 (0.2)
Total Acres	31.7 (12.8)

### **Vegetation Control**

Invasive plant species and competing vegetation are controlled as necessary to promote big game forage, maintain access, and to reduce seedling competition. Treatments may include both chemical and manual methods. All timber harvest areas that will have vegetation control in 2009 are listed in Table 13.2.3 below and locations are identified in Appendix G:

able 13.2.3 2009 Timber Harvest Areas Vegetation Control Treatments         Timber Harvest Area       Total of Treated Acres (hectares)         Target Species (Classification) <sup>1,2</sup>				
Timber Harvest Area	Total of Treated Acres (hectares)			
840107	1.0 (0.4)	Lt. RUAR (C) in West portion		
990229	5.0 (2.0)	RUAR (C), Lt. CYSC (B)		
020231	1.5 (0.6)	Lt. ALRU (nc), CYSC (B)		
020232	4.0 (1.6)	RUAR (C), south & east edge		
020233	2.0 (0.8)	ALRU (nc), RUAR (C), PHAR (C)		
980329	1.0 (0.4)	RUAR(C)		
980330	3.0 (1.2)	RUAR(C)		
050332	7.0 (2.8)	ALRU(nc)		
050333	0.5 (0.2)	Lt. RUAR(C), ALRU(nc)		
870415	4.0 (1.6)	Lt. MAOR (nc), RUAR(C)		
900437	2.0 (0.8)	RUAR(C) near steam		
900438	4.0 (1.6)	Lt. MAOR (nc), PHAR (C), RUAR(C)		
010443	6.0 (2.4)	RUAR(C)		
010444	1.0 (0.4)	Lt. RUAR(C)		
010445	3.0 (1.2)	RUAR(C)		
020446	0.7 (0.3)	CYSC (B)		
030447	6.0 (2.4)	Lt. CYSC (B), RUAR (C)		
820511	4.0(1.6)	ALRU (nc), RUAR (C) along road		
860520	5.0 (2.0)	RUAR (C), ALRU (nc)		
040528	2.0 (0.8)	ALRU (nc)		
830633	3.0 (1.2)	RUAR (C)		
860637	1.0 (0.4)	RUAR (C)		
890662	3.0 (1.2)	RUAR(C)		
890663	2.0 (0.8)	RUAR (C)		
910664	5.0 (2.0)	RUAR (C)		
960668	1.0(0.4)	RUAR (C)		
970671	5.0(2.0)	RUAR (C)		
980673	1.0(0.4)	RUAR (C)		
030682	2.0 (0.8)	CYSC (B)		
840718	1.0 (0.4)	RUAR(C)		
840772	2.0 (0.8)	RUAR(C)		
890745	4.0 (1.6)	Lt. RUAR(C), CYSC (B)		

<b>Fimber Harvest Area</b>	<b>Total of Treated Acres (hectares)</b>	Target Species (Classification) <sup>1,2</sup>
950759	1.0 (0.4)	RUAR (C)
950760	3.0 (1.2)	RUAR (C), CYSC (B)
950762	3.0 (1.2)	RUAR(C)
950763	1.0(0.4)	RUAR (C)
970767	2.0(0.8)	CYSC (B), RUAR (C), PTAQ (nc)
000768	4.0 (1.6)	RUAR (C), PTAQ (nc)
000769	6.0 (2.4)	PTAQ (nc)
880834	2.0 (0.8)	RUAR(C)
010837	3.0 (1.2)	RUAR(C)
840907	4.0 (1.6)	Heavy CYSC (B)
861103	3.0 (1.2)	RUAR (C)
901117	3.0 (1.2)	RUAR (C)
991122	5.5 (2.2)	Lt. RUAR(C), Heavy PTAQ (nc)
991123	0.9 (0.4)	Lt. RUAR (C), Heavy PTAQ (nc)
011124	8.6 (3.5)	Lt. RUAR(C), Heavy PTAQ (nc)
011125	13.0 (5.3)	Lt. RUAR (C), Heavy PTAQ (nc), ILAQ (
911230	1.0 (0.4)	RUSP (nc) around seedlings
911231	2.0 (0.8)	RUAR (C)
971234	4.0 (1.6)	RUAR(C), PTAQ (nc)
971235	3.0 (1.2)	Lt. RUAR (C)
021236	4.0(1.6)	RUSP (nc) around seedlings
041237	5.0 (2.0)	RUAR(C)
051238	3.0 (1.2)	RUAR (C)
841523	4.0 (1.6)	RUAR(C)
871514	2.0 (0.8)	RUAR (C), MAOR (nc) along rd 1510
951537	9.0 (3.6)	Lt. RUAR (C), Heavy PTAQ (nc)
951538	3.0 (1.2)	RUAR (C), PTAQ (nc)
001541	2.0 (0.8)	RUAR (C), PTAQ (nc)
001542	2.0 (0.8)	RUAR (C), ALRU (nc)
001543	4.0 (1.6)	Lt. RUAR (C), mod PTAQ (nc)
001544	4.7 (1.9)	Heavy PTAQ (nc), RUAR (C), ALRU (nc)
001545	1.2 (0.5)	Heavy PTAQ (nc), RUAR(C), ALRU(nc)
851615	6.0 (2.4)	Heavy RUAR (C) along creek, West and south edge

Fable 13.2.3 2009 Timber Harvest Areas Vegetation Control Treatments (continued)			
Timber Harvest Area         Total of Treated Acres (hectares)		<b>Target Species (Classification)</b> <sup>1,2</sup>	
851616	2.0 (0.8)	RUAR(C), MAOR (nc)	
921631	4.0 (1.6)	RUAR (C)	
921633	2.0 (0.8)	RUAR(C), MAOR (nc)	
991701	10.0 (4.0)	CYSC (B), RUAR(C)	
991702	20.0 (8.1)	CYSC (B), PTAQ (nc)	
861901	2.0 (0.8)	Lt. RUAR (C)	
861902	2.0 (0.8)	RUAR (C)	
861903	2.0(0.8)	Lt. RUAR (C)	
932003	20.0 (8.1)	PSME (nc) (heavy. natural reproduction)	
952007	4.0 (1.6)	Lt. RUAR (C)	
002009	1.0 (0.4)	RUAR (C)	
932303	3.0(1.2)	RUAR(C)	
	Total Acres	287.6 (120)	

<sup>1</sup>ALRU =red alder, CYSC = scotch broom, ILAQ = English Holly, MAOR = wild cucumber, , PHAR = Reed Canary Grass , PSME = Douglasfir , PTAQ = bracken fern, RUAR = Himalayan blackberry, RUSP = salmonberry  $^{2}$ Noxious Weed Classification = (A) = Class A, (B) = Class B, (Bd) = Class B designated region 8, (C) = Class C, (nc) = not classified

#### Pre-commercial Thinning:

Pre-commercial thinning and/or pruning are conducted on timber harvest areas that are generally less than 5.0 -7.0 feet (1.5 - 2.1 m) in height and it is required to maintain big game forage. All 2009 pre-commercial thinning or pruning is listed in Table 13.2.4 and locations are identified in Appendix F:

Timber Harvest Area	Acres (hectares)	Slash PCT	Hack & Squirt PCT	Prune
900225 CC	7.3 (3.0)		Х	
900227 CC	5.2 (2.1)		Х	
020523 CC	22.6 (9.1)	Х		
020524 CC	7.1 (2.9)	Х		
860639 CC	1.0 (0.4)		Х	
880660 CC	2.0 (0.8)		Х	
880661 CC	1.0 (0.4)		Х	
890662 CC	14.9 (6.0)		Х	
890663 CC	7.5 (3.0)		Х	
910664 CC	13.7 (5.5)			Х
960668 CC	6.1 (2.5)		X (Pockets)	Х
970671 CC	19.2 (7.8)			Х
980674 CC	8.7 (3.5)			Х
950760 CC	8.8 (3.6)	Х		
880834 CC	7.4 (3.0)		X, ALRU	
840907 CC	10.2 (4.1)		Х	

Table 13.2.4 2009 Pre-Commercial Thinning Treatments Areas

Table 13.2.4 2009 Pre-Commercial Thinning Treatments Areas (continued)				
Timber Harvest Area	Acres (hectares)	Slash PCT	Hack & Squirt PCT	Prune
890931 CC	21.8 (8.8)		Х	
920932 CC	13.8 (5.6)		Х	
920933 CC	14.4 (5.8)		Х	
861103 CC	22.9 (9.3)		Х	
901117 CC	15.0 (6.1)		X	
911231 CC	4.0 (1.6)			Х
911232 CC	0.8 (0.3)	ALRU		
841523 CC	15.9 (6.4)		Х	
891535 CC	22.5 (9.1)		Х	
871510 CC	2.1 (0.8)	Х		
891536 CC	1.5 (0.6)	Х		
951539 CC	11.5 (4.7)	ALRU		
001541 CC	4.6 (1.9)	Х		
001542 CC	4.4 (1.8)	Х		
001543 CC	5.8 (2.3)	Х		
001544 CC	4.7 (1.9)	Х		
851630 CC	63.1 (25.5)		X, ALRU	
921632 CC	4.4 (1.8)		X, ALRU	
921633 CC	3.4 (1.4)		ALRU	
991702 CC	37.0 (15.0)			Х
861902 CC	8.4 (3.4)		X, ALRU	
861903 CC	7.2 (2.9)		ALRU	
752001 CC	22.5 (9.1)		Х	
952004 CC	15.6 (6.3)		X, ALRU near creek	
952005 CC	4.7 (1.9)		X, ALRU	
952006 CC	11.7 (4.7)		X, ALRU	
932303 CC	10.8(4.4)	ALRU	Х	
Total Acres	497.2 (201.2)			

# **14.0 Invasive Plant Species Management**

### **14.1 Prevention**

In 2009 it will be assumed that 25 sites will require a pre-ground evaluation and 25 sites will be identified as significant invasive plant species infestation. There will be no monitoring required in 2009.

### 14.2 Detection

The Washington State and Cowlitz County noxious weed lists have been updated and are provided in Appendix H. Skamania County uses the Washington State list as their county list. To date Clark has not completed their 2009 noxious weed list, this information has been requested and will be incorporated into invasive plant species management when available.

# 14.3 Treatment

It is assumed that of the WHMP lands 100 acres of upland habitat and 10 acres within the ordinary high water will have invasive plant species treated in 2009. The table below list areas that have already been identified for invasive plant treatment in 2009. It is anticipated that additional areas will be identified or areas treated in 2008 may require follow up treatments.

Area	Total of Treated Acres (hectares)	Target Species (Classification) <sup>1,2</sup>	Control Method
Banker's Pond/Frasier Creek	0.5 (0.2)	CLVI (C)	Chemical
Upper Hanley-Curry Meadow	0.5 (0.2)	CENI (Bd [except Clark County])	Chemical
Speelyai Meadow	0.5 (0.2)	CIAR (C), CIVU (C)	Chemical
Lower Hanley-curry	5.0 (2.0)	CIAR (C), CIVU (C), ARMI (nc)	Chemical
Woodland Park East $3/14 - 4/14$	0.5 (0.2)	RUAR (C)	Chemical
Woodland Park East 7/14-8/14	0.5 (0.2)	RUAR (C)	Chemical
Woodland Park East 2/15-4/15	0.5 (0.2)	RUAR (C)	Chemical
Wilkinson 5/15	0.5 (0.2)	RUAR (C)	Chemical
Saddle Dam Farm and Idle Areas	15 (6.1)	CYSC (B)	Chemical
Unit 26 meadow	1.0 (0.4)	CYSC (B), broad leafs	Chemical
Total Acres	24.5 (10.5)		

Table 14.2.1 2009 Invasive Plant Species Control

<sup>1</sup> ARMI = Common burdock, CENI = Black Knapweed, CIAR = Canada thistle, CIVU = Bull thistle, CLVI = Traveler's joy, CYSC = scotch broom, RUAR = Himalayan blackberry

<sup>2</sup>Noxious Weed Classification = (A) = Class A, (B) = Class B, (Bd) = Class B designated region 8, (C) = Class C, (nc) = not classified

### **15.0 Raptor Site Management**

# **15.1 Monitoring**

Broadcast acoustical surveys for northern goshawks will be conducted for the second season in Unit 17. During these surveys the sharp-shinned hawk nest in the northwest corner of Unit 17 will be evaluated for occupancy. If this nest is not occupied, than it assumed that any new nests that are within 1500 ft (450 m) will be located during the broadcast acoustical surveys. Broadcast acoustical surveys will also be conducted in the rest of Unit 17 and proposed areas of forestland management in Management Units 11 and 18.

Both of the bald eagle and the osprey nest aerial surveys will occur in 2009.

# **15.2 Habitat Enhancement**

The bald eagle management plan and schedule for implementing habitat enhancement actions in old-growth and mature stands are scheduled to be completed in license years 2 and 3 (calendar years 2010 and 2011). The old-growth and mature stands raptor habitat quality assessment time will be accounted for in the old-growth initial evaluations that are scheduled to occur in license years 2 and 3 (calendar years 2010 and 2011). The Bald Eagle Management Plans will be developed for all nests within 0.5 miles (0.8 km) and all roost sites within 0.25 miles (0.4 km) of WHMP lands in license years 2 and 3 (calendar years 2010 and 2011).

### **15.3 Best Management Practices**

Best management practices for general raptors, northern spotted owls, and bald eagles will be implemented per the WHMP.

# **16.0 Public Access Management**

# **16.1 Inspections**

The road closure inspections and initial trail evaluations will occur in 2009. The initial road evaluation is scheduled to occur in license year 3 (calendar year 2011).

# **16.2 Management Actions**

An inventory of the dispersed shoreline recreation sites will be conducted in the spring of 2009 by biologists from Mason, Bruce, and Girard consulting firm. Dispersed shoreline recreation site impacts and management strategies for minimizing impacts (e.g. closure, buffers, or seasonal restrictions) will be determined using this inventory, as well as provide the baseline information for site creep. Site pioneering and creep monitoring cannot begin until this is completed (i.e., license year 2 [calendar year 2010]).

Although PacifiCorp has made great efforts in controlling unauthorized motorized vehicle access it is anticipated that additional efforts will be required in 2009 for at least 3 sites. The sites are to be determined throughout the year and will be dependent on available resources (e.g. other work scheduled for the same area), severity of trespass, and feasibility.

PacifiCorp will continue to implement road and culvert maintenance projects under the Washington Department of Natural Resources Road Maintenance and Abandonment Plan. Although these projects are not funded by WHMP funding, they may benefit WHMP lands in controlling access and improving overall habitat. Due to the January 2009 storm events, many culverts were affected resulting in plugged culverts, landslides and road wash-outs. At the time

of this plan, these sites are still being assessed or have repairs underway. Because snow and ice still continue to prevent access, a complete list of road and culvert repairs is not possible. Road and culvert repair will be conducting accordance to Washington Department of Fish and Wildlife Hydraulic Permit Application, Washington Department of Natural Resources Forest Practices Act permitting guidelines, and other necessary permits.

Due to other license and settlement agreements for fisheries and recreation and potential storm damage repair, it is assumed that at least one major road construction project may occur on WHMP lands in 2009. Money has been budgeted for PacifiCorp biologist to determine measures to minimize wildlife impacts on WHMP lands and ensure compliance with state and federal regulations.

# **17.0 Monitoring**

No monitoring inspections or management actions will occur in 2009.

Appendix A: 2009 Wildlife Habitat Management Plan Baseline Schedule

		Appendi	ix A: 2009 Lewis Rive Pacifi	er Wildli Corp En	fe Habita ergy - H	at Manag Iydro Re	gement P sources	lan Bas	eline Sch	edule										
ID	Task Name	WHMP Start Date	WHMP Finish Date	1	<b>F</b> .1.100	Mar 100	A	Mar. 100			A			0	N	D 100		E-140	Marildo	A
1	Administration	Thu 1/1/09	Fri 4/30/10	Jan '09	Feb 09	Mar 09	Apr '09	<u>  May '09</u>	) Jun '09	Jul '09	Aug '09	) Se	<u>p 09  </u>	<u>Oct '09</u>	<u>Nov '09</u>	Dec '09	Jan 10	Feb '10	<u>Mar 10</u>	Apr 10
2	Terrestrial Coordination Committee	Thu 1/1/09	Thu 12/31/09																	
3	2008 Annual Report	Mon 3/2/09	Thu 4/30/09																	
4	TCC 30-day Review	Mon 3/2/09	Tue 3/31/09	-																
5	FERC 30-day Review	Wed 4/1/09	Thu 4/30/09	-																
6	2009 Annual Report	Mon 3/1/10	Fri 4/30/10	-																
7	TCC 30-day Review	Mon 3/1/10	Tue 3/30/10	-																
8	FERC 30-day Review	Thu 4/1/10	Fri 4/30/10	-																
9	2009 Annual Plan	Fri 1/30/09	Tue 3/31/09	-																
10	TCC 30-day Review	Fri 1/30/09	Mon 3/2/09	-																
11	FERC 30-day Review	Mon 3/2/09	Tue 3/31/09	-																
12	2010 Annual Plan	Fri 1/29/10	Tue 3/30/10	-																
13	TCC 30-day Review	Fri 1/29/10	Mon 3/1/10	-																
14	FERC 30-day Review	Mon 3/1/10	Tue 3/30/10	-																
15	Old-Growth Habitat	Thu 1/1/09	Sun 2/28/10																	
16	Inspections	Thu 1/1/09	Thu 12/31/09	-																
17	Initial Evaluation	Wed 4/15/09	Wed 7/15/09	-																
18	Aerial Surveys	Thu 1/1/09	Thu 12/31/09																	
19	Ground Surveys	Thu 1/1/09	Thu 12/31/09	-																
20	Development	Tue 9/1/09	Sun 2/28/10	-																
21	Snag Development	Tue 9/1/09	Sun 2/28/10	-																
22	Thinning	Tue 9/1/09	Sun 2/28/10																	
	1			I	1	1	1				I				1	1	1	1	<u> </u>	
	Baseline	Scheduled																		
Mon 2/	/23/09				1 of 12															

		Append	lix A: 2009 Lewis Rive Pacifi	er Wildlife Habita Corp Energy - H	at Manage ydro Res	ement ource	t Plan Basel es	ine Sche	dule									
ID	Task Name	WHMP Start Date	WHMP Finish Date	Jan '09 Feb '09				lun '00	Jul '00	Aug '09	Sop 100	Oct '09 Nov	100 Dec 1	00	lon '10	Ech '40	Mar '40	Apr 140
23	Large Woody Debris	Tue 9/1/09	Sun 2/28/10	Jan 09 Feb 09	<u>Mar 09</u>		<u>9 May 09</u>	Jun 09	Jui 09	Aug 09	Sep 09			09   .	Jan 10		Mar 10	<u>  Apr 10</u>
24	Connectivity	Wed 4/15/09	Wed 7/15/09															
25	Mature Stand Connectivity Evaluations	Wed 4/15/09	Wed 7/15/09															
26	Wetland Habitat	Thu 1/1/09	Sun 6/29/14	-														
27	Inspections	Thu 1/1/09	Sun 6/29/14															
28	Initial Evaluation	Fri 4/10/09	Tue 6/30/09															
29	Initial Evaluation Final Report	Thu 1/1/09	Thu 12/31/09															
30	Annual Inspection	Fri 4/10/09	Tue 6/30/09															
31	Annual Inspection with unmanaged wetlands	Thu 4/10/14	Sun 6/29/14															
32	Post-Treatment Inspection	Thu 1/1/09	Thu 12/31/09															
33	Water Control	Thu 1/1/09	Thu 12/31/09															
34	Diversion Draw Down	Thu 1/1/09	Thu 12/31/09															
35	Winter Flow Stop Log Removal	Thu 10/15/09	Sat 10/31/09															
36	Winter Flow Stop Log Replacement	Sun 2/15/09	Sat 2/28/09															
37	Dike Maintenance	Thu 1/1/09	Thu 12/31/09															
38	Vegetation Management	Thu 1/1/09	Thu 12/31/09															
39	Surrounding Wetland Vegetation	Thu 1/1/09	Thu 12/31/09															
40	Yellow Warbler and Mink Habitat Enhancement	Thu 1/1/09	Thu 12/31/09															
41	Shrub Enhancement	Thu 1/1/09	Thu 12/31/09															
42	Shrub Planting	Sun 2/1/09	Sun 3/15/09															
43	Waterfowl and Bat Habitat Enhancement	Thu 1/1/09	Thu 12/31/09															
44	Loafing Logs	Thu 1/1/09	Thu 12/31/09															
					1	1					1							
	Baseline Sched	uled																
Mon 2/	23/09			2 of 12														

		Append	ix A: 2009 Lewis Riv Pacif	er Wildli iCorp Er	fe Habita ergy - H	at Manag Iydro Re	gement sources	Plan Ba	seline Sc	hedule									
ID	Task Name	WHMP Start Date	WHMP Finish Date	lon '00	Eab '00	Mar '00	Apr 100	Movi	)9 Jun '09		Aug '00	Son '00	Oct 100	Nov '09	Dec '00	lon '10	Eab 110	Mor 10	
45	Snag Creation	Thu 1/1/09	Thu 12/31/09													Jan Tu		Mar TU	
46	Aquatic Vegetation Control	Thu 7/16/09	Mon 11/30/09	-															
47	Bullfrog Management	Thu 1/1/09	Thu 12/31/09	-															
48	Implement Bullfrog Management Methods	Thu 1/1/09	Thu 12/31/09																
49	Remove Stoplogs	Sat 8/15/09	Wed 9/30/09	_															
50	Replace Stoplogs	Thu 10/15/09	Sat 10/31/09																
51	Great Blue Heron Colony Management	Thu 1/1/09	Thu 12/31/09	-															
52	Review WDNR Heritage Database	Tue 12/1/09	Thu 12/31/09	-															
53	Great Blue Heron Colony Site Management Report	Thu 1/1/09	Thu 12/31/09																
54	Riparian Habitat	Thu 1/1/09	Thu 12/31/09	-															
55	Inspection	Thu 1/1/09	Thu 12/31/09	-															
56	Riparian Mixed Forest Stand Evaluation	Thu 1/1/09	Thu 12/31/09																
57	Other Inspection	Thu 1/1/09	Thu 12/31/09																
58	Establish Buffers	Thu 1/1/09	Thu 12/31/09																
59	Water Type Modification	Thu 1/1/09	Thu 12/31/09																
60	Snag Development Schedule	Thu 1/1/09	Thu 12/31/09																
61	Snag Removal	Thu 1/1/09	Thu 12/31/09																
62	Riparian Area Restoration	Thu 1/1/09	Thu 12/31/09																
63	Shrubland Management	Thu 1/1/09	Mon 3/1/10																
64	Inspections	Thu 1/1/09	Thu 12/31/09	-															
65	Initial Inspection	Wed 4/15/09	Sat 10/31/09	-															
66	Initial Evaluation Final Report	Thu 1/1/09	Thu 12/31/09																
		<u> </u>																	
	Baseline Sched																		
Mon 2	2/23/09				3 of 12														

		Pacifi	Corp Er	ergy - H	ydro Re	sources		line Sch										
Task Name	WHMP Start Date	WHMP Finish Date	_		-		May '00	lun '00	Jul '09	Aug '00	Son 100	Oct '00	Nov '09	Dec '00	lon '10	Feb '10	Mar '10	
15-year Inspection	Wed 4/15/09	Sat 10/31/09	Jan 09							Aug 09				Dec 09				
Post-treatment Inspections	Mon 6/1/09	Mon 8/31/09																
Shade Control	Thu 1/1/09	Mon 3/1/10																
Topping Trees	Sun 11/1/09	Mon 3/1/10	-															
Falling a Tree	Sun 11/1/09	Mon 3/1/10																
Herbicide Injection	Thu 1/1/09	Thu 12/31/09	-															
Other Management	Thu 1/1/09	Thu 12/31/09																
Heavy Pruning Circle	Tue 9/1/09	Thu 12/31/09																
Vegetation Control - Clear Competing Brush	Thu 1/1/09	Thu 12/31/09	-															
Revise Management Actions	Thu 1/1/09	Thu 12/31/09	-															
Farmland/Idle Field/Meadow	Thu 1/1/09	Thu 12/31/09																
Inspections	Thu 1/1/09	Thu 12/31/09																
Initial Inspections	Wed 4/15/09	Wed 9/30/09																
Initial Inspections Final Report	Thu 1/1/09	Thu 12/31/09																
Annual Spring Inspections	Wed 4/15/09	Sun 5/31/09																
5-year Passively Managed Area Inspections	Wed 4/15/09	Sun 5/31/09																
Annual Fall Inspection	Thu 10/1/09	Thu 10/15/09																
Mowing	Fri 5/15/09	Mon 8/31/09																
Spring Mowing/Hay Harvest	Fri 5/15/09	Mon 6/15/09																
Fall Mowing/Hay Harvest	Sun 8/16/09	Mon 8/31/09																
Soil Testing	Sat 8/1/09	Mon 8/31/09																
Fertilization and Lime	Sat 1/31/09	Mon 11/30/09																
	· · · · ·			<u> </u>	1	1	<u> </u>		1	<u> </u>	<u> </u>	1		1	<u>i</u>	1		
	Post-treatment Inspections         Shade Control         Topping Trees         Falling a Tree         Herbicide Injection         Other Management         Heavy Pruning Circle         Vegetation Control - Clear Competing Brush         Revise Management Actions         Farmland/Idle Field/Meadow         Inspections         Initial Inspections Final Report         Annual Spring Inspections         5-year Passively Managed Area Inspections         Annual Fall Inspection         Mowing         Spring Mowing/Hay Harvest         Fall Mowing/Hay Harvest         Soil Testing	Post-treatment Inspections       Mon 6/1/09         Shade Control       Thu 1/1/09         Topping Trees       Sun 11/1/09         Falling a Tree       Sun 11/1/09         Herbicide Injection       Thu 1/1/09         Other Management       Thu 1/1/09         Heavy Pruning Circle       Tue 9/1/09         Vegetation Control - Clear Competing Brush       Thu 1/1/09         Revise Management Actions       Thu 1/1/09         Inspections       Thu 1/1/09         Inspections       Wed 4/15/09         Initial Inspections Final Report       Thu 1/1/09         Annual Spring Inspections       Wed 4/15/09         S-year Passively Managed Area Inspections       Wed 4/15/09         Annual Fall Inspection       Thu 1/1/09         Mowing       Fri 5/15/09         Spring Mowing/Hay Harvest       Sun 8/16/09         Soil Testing       Sat 8/1/09         Fertilization and Lime       Scheduled	Post-treatment Inspections       Mon 6/1/09       Mon 8/31/09         Shade Control       Thu 1/1/09       Mon 3/1/10         Topping Trees       Sun 11/1/09       Mon 3/1/10         Falling a Tree       Sun 11/1/09       Mon 3/1/10         Herbicide Injection       Thu 1/1/09       Thu 12/31/09         Other Management       Thu 1/1/09       Thu 12/31/09         Heavy Pruning Circle       Tue 9/1/09       Thu 12/31/09         Vegetation Control - Clear Competing Brush       Thu 1/1/09       Thu 12/31/09         Revise Management Actions       Thu 1/1/09       Thu 12/31/09         Inspections       Thu 1/1/09       Thu 12/31/09         Inspections       Thu 1/1/09       Thu 12/31/09         Inspections       Thu 1/1/09       Thu 12/31/09         Initial Inspections       Wed 4/15/09       Wed 9/30/09         Initial Inspections       Wed 4/15/09       Sun 5/31/09         Annual Spring Inspections       Wed 4/15/09       Sun 5/31/09         Annual Fall Inspection       Thu 10/1/09       Thu 10/15/09         Mowing       Fri 5/15/09       Mon 8/31/09         Spring Mowing/Hay Harvest       Fri 5/15/09       Mon 8/31/09         Soil Testing       Sat 8/1/09       Mon 8/31/09	Post-treatment Inspections       Mon 6/1/09       Mon 8/31/09         Shade Control       Thu 1/1/09       Mon 3/1/10         Topping Trees       Sun 11/1/09       Mon 3/1/10         Falling a Tree       Sun 11/1/09       Mon 3/1/10         Herbicide Injection       Thu 1/1/09       Thu 12/31/09         Other Management       Thu 1/1/09       Thu 12/31/09         Heavy Pruning Circle       Tue 9/1/09       Thu 12/31/09         Vegetation Control - Clear Competing Brush       Thu 1/1/09       Thu 12/31/09         Revise Management Actions       Thu 1/1/09       Thu 12/31/09         Inspections       Thu 1/1/09       Thu 12/31/09         Initial Inspections       Wed 4/15/09       Wed 9/30/09         Initial Inspections       Wed 4/15/09       Sun 5/31/09         S-year Passively Managed Area Inspections       Wed 4/15/09       Sun 5/31/09         Annual Spring Inspection       Thu 10/1/09       Thu 10/15/09         Mowing/Hay Harvest       Frii 5/15/09       Mon 8/31/09         Spring Mowing/Hay Harvest       Sun 8/16/09       Mon 8/31/09         Fatl Mowing/Hay Harvest       Sun 8/16/09       Mon 8/31/09         Soll Testing       Sat 8/1/09       Mon 11/30/09	Post-treatment Inspections         Mon 6/1/09         Mon 8/31/09           Shade Control         Thu 1/1/09         Mon 3/1/10           Topping Trees         Sun 11/1/09         Mon 3/1/10           Falling a Tree         Sun 11/1/09         Mon 3/1/10           Herbicide Injection         Thu 1/1/09         Mon 3/1/10           Other Management         Thu 1/1/09         Thu 1/2/31/09           Heavy Pruning Circle         Tue 9/1/09         Thu 1/2/31/09           Vegetation Control - Clear Competing Brush         Thu 1/1/09         Thu 1/2/31/09           Revise Management Actions         Thu 1/1/09         Thu 1/2/31/09           Inspections         Thu 1/1/09         Thu 1/2/31/09           Inspections         Wed 4/15/09         Wed 9/30/09           Initial Inspections         Wed 4/15/09         Sun 5/31/09           Annual Spring Inspections         Wed 4/15/09         Sun 5/31/09           Annual Fall Inspection         Thu 10/1/09         Thu 10/15/09           Mowing/Hay Harvest         Fri 5/15/09         Mon 8/31/09           Soil Testing         Sat 1/31/09         Mon 8/31/09           Soil Testing         Sat 1/31/09         Mon 8/31/09	Post-treatment Inspections         Mon 6/1/09         Mon 8/31/09           Shade Control         Thu 1//09         Mon 3/1/10           Topping Trees         Sun 11/1/09         Mon 3/1/10           Palling a Tree         Sun 11/1/09         Mon 3/1/10           Herbicide Injection         Thu 1/1/09         Mon 3/1/10           Other Management         Thu 1/1/09         Thu 12/31/09           Heavy Pruning Circle         Tue 9/1/09         Thu 12/31/09           Vegetation Control - Clear Competing Brush         Thu 1/1/09         Thu 12/31/09           Revise Management Actions         Thu 11/1/09         Thu 12/31/09           Initial Inspections         Wed 4/15/09         Wed 9/30/09           Initial Inspections         Wed 4/15/09         Sun 5/31/09           Annual Spring Inspections         Wed 4/15/09         Sun 5/31/09           Annual Spring Inspection         Thu 10/1/09         Thu 10/15/09           Annual Fall Inspection         Thu 10/1/09         Mon 6/15/09           Spring Mowing/Hay Harvest         Fri 5/15/09         Mon 6/15/09           Soil Teating         Sat 1/3/109         Mon 8/31/09           Soil Teating         Sat 1/3/109         Mon 8/31/09	Post-treatment Inspections         Mon 6/1/09         Mon 8/31/09           Shade Control         Thu 1/1/09         Mon 3/1/10           Topping Trees         Sun 11/1/09         Mon 3/1/10           Falling a Tree         Sun 11/1/09         Mon 3/1/10           Herbicide Injection         Thu 1/1/09         Mon 3/1/10           Other Management         Thu 1/1/09         Thu 12/31/09           Vegetation Control - Clear Competing Brush         Thu 1/1/09         Thu 12/31/09           Revise Management Actions         Thu 1/1/09         Thu 12/31/09           Inspections         Thu 1/1/09         Thu 12/31/09           Intial Inspections         Wed 4/15/09         Wed 9/30/09           Initial Inspections         Wed 4/15/09         Sun 5/31/09           Annual Spring Inspections         Wed 4/15/09         Sun 5/31/09           Annual Fall Inspections         Wed 4/15/09         Mon 8/31/09           Spring Mowing/Hay Harvest         Srin 5/15/09         Mon 8/31/09           Spring Mowing/Hay Harvest         Sun 8/1/09         Mon 8/31/09	Post-treatment Inspections         Mon 6/1/09         Mon 8/31/09           Shade Control         Thu 11/109         Mon 3/1/10           Topping Trees         Sun 11/1/09         Mon 3/1/10           Palling a Tree         Sun 11/1/09         Mon 3/1/10           Herbicide Injection         Thu 11/1/09         Mon 3/1/10           Other Management         Thu 11/109         Thu 12/31/09           Vegetation Control - Clear Compating Brush         Thu 11/109         Thu 12/31/09           Revise Management Actions         Thu 11/109         Thu 12/31/09           Initial Inspections         Wed 4/15/09         Wed 9/30/09           Initial Inspections Final Report         Thu 11/109         Sun 5/31/109           Annual Spring Inspections         Wed 4/15/09         Sun 5/31/09           Syster Passively Managed Area Inspections         Wed 4/15/09         Sun 5/31/09           Mowing/Hay Harvest         Fri 5/15/09         Mon 6/15/09           Spring Mowing/Hay Harvest         Sun 8/16/09         Mon 8/31/09           Soil Testing         Sat 1/31/09         Mon 8/31/09	Post-treatment Inspections         Mon 6/1/09         Mon 8/31/09           Shade Control         Thu 1//09         Mon 3/1/0           Topping Trees         Sun 11/1/09         Mon 3/1/0           Failing a Tree         Sun 11/1/09         Mon 3/1/0           Herbicide Injection         Thu 1//09         Thu 1/2/31/09         Image: Control - Clear Competing Brush         Thu 1//09           Vegetation Control - Clear Competing Brush         Thu 1//09         Thu 12/31/09         Image: Control - Clear Competing Brush         Thu 1//09           Revise Management Actions         Thu 1//09         Thu 12/31/09         Image: Control - Clear Competing Brush         Thu 1//09           Inspections         Thu 1//09         Thu 12/31/09         Image: Control - Clear Competing Brush         Thu 1//09           Inspections         Thu 1//09         Thu 12/31/09         Image: Control - Clear Competing Brush         Thu 1//09           Inspections         Thu 1//09         Thu 12/31/09         Image: Control - Clear Competing Brush         Thu 1//09           Inspections         Wed 4/15/09         Wed 9/30/09         Image: Control - Clear Competing Brush         Thu 1//09           Inspections         Wed 4/15/09         Sun 5/31/09         Image: Control - Clear Competing Brush         Thu 1//09           Syster Passively Managed A	Post-treatment Inspections       Mon 8/31/09       Mon 8/31/09       Mon 8/31/09         Shade Control       Thu 11/109       Mon 3/1/10       Mon 3/1/10         Topping Trees       Sun 11/109       Mon 3/1/10       Mon 3/1/10         Hardicide Injection       Thu 11/109       Mon 3/1/10       Mon 3/1/10         Other Management       Thu 11/109       Thu 12/31/09       Mon 3/1/10         Vegetation Control - Clear Competing Brush       Thu 11/109       Thu 12/31/09       Mon 3/1/10         Revise Management Actions       Thu 11/109       Thu 12/31/09       Mon 3/1/10         Intel Inspections       Thu 11/109       Thu 12/31/09       Mon 3/1/10         Intel Inspections       Thu 11/109       Thu 12/31/09       Mon 3/1/10         Intel Inspections       Wed 4/15/09       Wed 9/30/09       Mon 8/31/09         Intel Inspections       Wed 4/15/09       Sun 5/31/09       Mon 8/31/09         Annual Spring Inspections       Wed 4/15/09       Sun 5/31/09       Mon 8/31/09         Spring MowingHay Harvest       Fri 5/15/09       Mon 8/31/09       Mon 8/31/09         Spring MowingHay Harvest       Sun 8/16/09       Mon 8/31/09       Mon 8/31/09         Soil Testing       Sat 1/31/09       Mon 8/31/09       Mon 8/31/09	Post-treatment Inspections       Mon 6/1/09       Mon 8/3109         Shade Control       Thu 1/1/09       Mon 3/1/10         Topping Trees       Sun 11/1/09       Mon 3/1/10         Herbidde Injection       Thu 1/1/09       Mon 3/1/10         Herbidde Injection       Thu 1/1/09       Thu 1/2/3109         Other Management       Thu 1/1/09       Thu 1/2/3109         Vegetation Control - Clear Competing Brush       Thu 1/1/09       Thu 1/2/3109         Vegetation S       Thu 1/1/109       Thu 1/2/3109         Initial Inspections       Thu 1/1/109       Thu 1/2/3109         Initial Inspections       Wed 4/1509       Ved 9/3000         Initial Inspections       Wed 4/1509       Sun 5/3100         Syster Passively Managed Area Inspections       Wed 4/1509       Sun 5/3100         Annual Spring Inspections       Wed 4/1509       Sun 5/3100         Spring Mowing/Hay Harvest       Sun 8/1609       Mon 8/3109         Soli Testing       Sat 1/31/00       Mon 8/3109 <td>Post-treatment Inspections         Mon 8/1/09         Mon 8/31/09           Shade Control         Thu 1/1/09         Mon 3/1/0           Topping Trass         Sun 11/1/09         Mon 3/1/0           Falling a Troe         Sun 11/1/09         Mon 3/1/0           Hotbicide Injection         Thu 1/1/09         Thu 1/23/09           Other Management         Thu 1/1/09         Thu 1/23/109           Heavier Management Actions         Thu 1/1/1/09         Thu 1/23/109           Revise Management Actions         Thu 1/1/1/09         Thu 1/23/109           Instal Inspections         World 4/1509         World 9/3009           Instal Inspections         World 4/1509         Sun 5/31/09           Annual Pati Inspections         Weld 4/1509         Sun 5/31/09           Symp Mowing/Hay Harvest         Fri 5/1509         Mon 8/31/09           Symp Mowing/Hay Harvest         Fri 5/1509         Mon 8/31/09           Soli Testing         Sat 8/1/309         Mon 8/31/09</td> <td>Past-treatment Inspections       Mon 8/100       Men 8/3100         Shade Control       Thu 1/109       Mon 3/1/10         Topping Tree       Sun 11/108       Mon 3/1/10         Falling a Tree       Sun 11/108       Mon 3/1/10         Hotbicido Injection       Thu 1/109       Thu 12/3100         Other Management       Thu 1/109       Thu 12/3100         Heavy Pruning Circle       Tue 9/109       Thu 12/3100         Vagetatio Cortrol - Clear Competing Brush       Thu 17/109       Thu 12/3100         Rovise Management Actions       Thu 17/109       Thu 12/3100         Initial Inspections       Wed 4/1509       Wed 93000         Initial Inspections       Wed 4/1509       Sun 5/3100         Syster Passively Managed Area Inspections       Wed 4/1509       Sun 5/3100         Annual Spring Inspections       Wed 4/1509       Sun 5/3100         Syster Passively Managed Area Inspections       Wed 4/1509       Sun 5/3100         Syster Passively Managed Area Inspections       Wed 4/1509       Mon 8/3100         Sol Testing       Sus 8/100       Mon 8/3100       Intell Inspections         Sol Testing       Sus 8/109       Mon 8/3109       Intell 1/100/100         Sol Testing       Sus 8/109       Mon 8/3109       I</td> <td>Post-treasment inspections       Mon 63/36         Shade Control       Thu 17/96         Topping Trees       Sun 117/36         Topping Trees       Sun 117/36         Failing a Tro       Sun 117/36         Hotbidde Injecton       Thu 17/96         Hotbidde Injecton       Thu 17/96         Vegetation Control - Clear Comparing Brush       Thu 12/31/06         Heavy Pruning Citcle       Thu 17/96         Revise Management       Thu 17/96         Revise Management Actions       Thu 17/96         Revise Management Actions       Thu 17/96         Initial Inspections       Thu 17/96         Initial Inspections       Wed 4/150         Annual Spring Inspections       Wed 4/150         Annual Fall Report       Thu 17/96         Annual Fall Report       Thu 17/96         Spring Inspections       Wed 4/150         Annual Fall Report       Thu 17/96         Annual Fall Report       Thu 17/96         Spring Inspections       Wed 4/1500         Annual Fall Report       Thu 17/96         Annual Fall Report       Sun 6/1600         Spring Inspections       Sun 6/1600         Spring Inspections       Sun 6/1600         Spring Moving/Hay Ha</td> <td>Peet-treatment Inspections       Mon 6/11/09       Mon 9/11/09         Shade Control       Tu 1/1/199       Mon 9/11/09         Torping Trees       Sun 11/109       Mon 9/11/09         Herbicide Injection       Thu 1/1/109       Mon 9/11/09         Herbicide Injection       Thu 1/1/109       Mon 9/11/09         Herbicide Injection       Thu 1/1/109       Thu 1/23/109         Vegetation Control - Clear Companing Blusch       Thu 1/1/109       Thu 1/23/109         Revise Management Actions       Thu 1/1/109       Thu 1/23/109         Revise Management Actions       Thu 1/1/109       Thu 1/23/109         Revise Management Actions       Thu 1/1/109       Thu 1/23/109         Initial Inspections       Thu 1/1/109       Thu 1/23/109         Initial Inspections       Weid 4/1509       Woid 9/30/09         Annual Spring Inspections       Weid 4/1509       Sun 9/30/10         Annual Spring Inspections       Weid 4/1509       Sun 9/30/10         Annual Spring Inspections       Weid 4/1509       Sun 9/30/10         Spring Mowing/Hay Harvest       Sun 8/10/10       Mon 8/30/10         Spring Mowing/Hay Harvest       Sun 8/10/10       Mon 8/30/10         Spring Mowing/Hay Harvest       Sun 8/10/10       Mon 8/30/10</td> <td>Post-treatment inspections       Mon 63108       Mon 83108         Shade Control       Thu 17109       Mon 37100         Topping Trees       Sun 11718       Mon 37100         Faling a Tree       Sun 11718       Mon 37100         Hotizode Injection       Sun 117180       Mon 37100         Other Management       Sun 117180       Mon 37100         Heinzide Injection       Thu 17109       Thu 123108         Vegetation Contind - Center Comparing Brash       Thu 12108       Imagement         Revise Management Actions       Thu 17109       Thu 123108         Revise Management Actions       Thu 17109       Thu 123108         Inspections       Thu 17109       Thu 123108         Inspections       Thu 17109       Thu 123108         Inspections       Weed 41505       Weed 43508         Share Annaus Spring Inspections       Weed 41508       Sun 53108         Syster Passwely Managed Area Inspections       Weed 41508       Sun 53108         Syster Passwely Managed Area Inspections       Weed 41508       Sun 53108         Syster Passwely Managed Area Inspections       Sun 53108       Ima 123109         Syster Passwely Managed Area Inspections       Sun 53108       Ima 123109         Shift Teal MowingHay Harvest</td> <td>Post-treatment inspections       Mon 61100       Mon 82109         Shade Control       Thu 1/100       Mon 32101         Topping Tree       Son 11/100       Mon 32101         Falling a Tros       Son 11/100       Mon 32101         Falling a Tros       Son 11/100       Mon 32101         Falling a Tros       Son 11/100       Mon 32100         Falling a Tros       Son 11/100       Mon 32100         Other Management       Thu 1/100       Thu 1/22100         Mose Maragement Actions       Thu 1/100       Thu 1/22100         Mose Maragement Actions       Thu 1/100       Thu 1/22100         Initial Inspections       Wed 4/1500       Wed 4/1500         Singeneions       Wed 4/1500       Son 52100         Initial Inspections       Wed 4/1500       Son 52100         Annual Spring Insectories       Son 8/100       Son 52100         Spring MovengHay Harvest       Fil 6/1500       Mon 6/1600         Spring MovengHay Harvest       Fil 6/1500       Mon 8/1100         Spring MovengHay Harvest       Sin 8/100       Mon 8/1100         Spring MovengHay Harvest       Sin 8/100       Mon 8/2100         Spring MovengHay Harvest       Sin 8/100       Mon 8/2100         Spring MovengHa</td> <td>Prost treatment Inspactions       Mon 8010         Shade Control       Thu 10100       Mon 80100         Topping Trons       Shan 10100       Mon 80100         Faling a Tree       Shan 11000       Mon 80100         Feling a Tree       Shan 11000       Thu 120100         Feling Moning Feling Massin       Thu 120100       Thu 120100         Vegetaling Control - Cear Competing Brush       Thu 120100       Thu 120100         Feling Moning Feling Massin       Thu 120100       Thu 120100         Initial Inspectificar       Thu 11000       Thu 1201000         Initial Inspectificar       Weid 41600       Weid 41600         System Feling Massing Inspectificar       Thu 11000       Shan 10000         System Feling Massing Inspectificar       Thu 11000       Mon 101000         System Feling Massing Inspectificar       Shan 100000       Mon 101000         Sh</td>	Post-treatment Inspections         Mon 8/1/09         Mon 8/31/09           Shade Control         Thu 1/1/09         Mon 3/1/0           Topping Trass         Sun 11/1/09         Mon 3/1/0           Falling a Troe         Sun 11/1/09         Mon 3/1/0           Hotbicide Injection         Thu 1/1/09         Thu 1/23/09           Other Management         Thu 1/1/09         Thu 1/23/109           Heavier Management Actions         Thu 1/1/1/09         Thu 1/23/109           Revise Management Actions         Thu 1/1/1/09         Thu 1/23/109           Instal Inspections         World 4/1509         World 9/3009           Instal Inspections         World 4/1509         Sun 5/31/09           Annual Pati Inspections         Weld 4/1509         Sun 5/31/09           Symp Mowing/Hay Harvest         Fri 5/1509         Mon 8/31/09           Symp Mowing/Hay Harvest         Fri 5/1509         Mon 8/31/09           Soli Testing         Sat 8/1/309         Mon 8/31/09	Past-treatment Inspections       Mon 8/100       Men 8/3100         Shade Control       Thu 1/109       Mon 3/1/10         Topping Tree       Sun 11/108       Mon 3/1/10         Falling a Tree       Sun 11/108       Mon 3/1/10         Hotbicido Injection       Thu 1/109       Thu 12/3100         Other Management       Thu 1/109       Thu 12/3100         Heavy Pruning Circle       Tue 9/109       Thu 12/3100         Vagetatio Cortrol - Clear Competing Brush       Thu 17/109       Thu 12/3100         Rovise Management Actions       Thu 17/109       Thu 12/3100         Initial Inspections       Wed 4/1509       Wed 93000         Initial Inspections       Wed 4/1509       Sun 5/3100         Syster Passively Managed Area Inspections       Wed 4/1509       Sun 5/3100         Annual Spring Inspections       Wed 4/1509       Sun 5/3100         Syster Passively Managed Area Inspections       Wed 4/1509       Sun 5/3100         Syster Passively Managed Area Inspections       Wed 4/1509       Mon 8/3100         Sol Testing       Sus 8/100       Mon 8/3100       Intell Inspections         Sol Testing       Sus 8/109       Mon 8/3109       Intell 1/100/100         Sol Testing       Sus 8/109       Mon 8/3109       I	Post-treasment inspections       Mon 63/36         Shade Control       Thu 17/96         Topping Trees       Sun 117/36         Topping Trees       Sun 117/36         Failing a Tro       Sun 117/36         Hotbidde Injecton       Thu 17/96         Hotbidde Injecton       Thu 17/96         Vegetation Control - Clear Comparing Brush       Thu 12/31/06         Heavy Pruning Citcle       Thu 17/96         Revise Management       Thu 17/96         Revise Management Actions       Thu 17/96         Revise Management Actions       Thu 17/96         Initial Inspections       Thu 17/96         Initial Inspections       Wed 4/150         Annual Spring Inspections       Wed 4/150         Annual Fall Report       Thu 17/96         Annual Fall Report       Thu 17/96         Spring Inspections       Wed 4/150         Annual Fall Report       Thu 17/96         Annual Fall Report       Thu 17/96         Spring Inspections       Wed 4/1500         Annual Fall Report       Thu 17/96         Annual Fall Report       Sun 6/1600         Spring Inspections       Sun 6/1600         Spring Inspections       Sun 6/1600         Spring Moving/Hay Ha	Peet-treatment Inspections       Mon 6/11/09       Mon 9/11/09         Shade Control       Tu 1/1/199       Mon 9/11/09         Torping Trees       Sun 11/109       Mon 9/11/09         Herbicide Injection       Thu 1/1/109       Mon 9/11/09         Herbicide Injection       Thu 1/1/109       Mon 9/11/09         Herbicide Injection       Thu 1/1/109       Thu 1/23/109         Vegetation Control - Clear Companing Blusch       Thu 1/1/109       Thu 1/23/109         Revise Management Actions       Thu 1/1/109       Thu 1/23/109         Revise Management Actions       Thu 1/1/109       Thu 1/23/109         Revise Management Actions       Thu 1/1/109       Thu 1/23/109         Initial Inspections       Thu 1/1/109       Thu 1/23/109         Initial Inspections       Weid 4/1509       Woid 9/30/09         Annual Spring Inspections       Weid 4/1509       Sun 9/30/10         Annual Spring Inspections       Weid 4/1509       Sun 9/30/10         Annual Spring Inspections       Weid 4/1509       Sun 9/30/10         Spring Mowing/Hay Harvest       Sun 8/10/10       Mon 8/30/10         Spring Mowing/Hay Harvest       Sun 8/10/10       Mon 8/30/10         Spring Mowing/Hay Harvest       Sun 8/10/10       Mon 8/30/10	Post-treatment inspections       Mon 63108       Mon 83108         Shade Control       Thu 17109       Mon 37100         Topping Trees       Sun 11718       Mon 37100         Faling a Tree       Sun 11718       Mon 37100         Hotizode Injection       Sun 117180       Mon 37100         Other Management       Sun 117180       Mon 37100         Heinzide Injection       Thu 17109       Thu 123108         Vegetation Contind - Center Comparing Brash       Thu 12108       Imagement         Revise Management Actions       Thu 17109       Thu 123108         Revise Management Actions       Thu 17109       Thu 123108         Inspections       Thu 17109       Thu 123108         Inspections       Thu 17109       Thu 123108         Inspections       Weed 41505       Weed 43508         Share Annaus Spring Inspections       Weed 41508       Sun 53108         Syster Passwely Managed Area Inspections       Weed 41508       Sun 53108         Syster Passwely Managed Area Inspections       Weed 41508       Sun 53108         Syster Passwely Managed Area Inspections       Sun 53108       Ima 123109         Syster Passwely Managed Area Inspections       Sun 53108       Ima 123109         Shift Teal MowingHay Harvest	Post-treatment inspections       Mon 61100       Mon 82109         Shade Control       Thu 1/100       Mon 32101         Topping Tree       Son 11/100       Mon 32101         Falling a Tros       Son 11/100       Mon 32101         Falling a Tros       Son 11/100       Mon 32101         Falling a Tros       Son 11/100       Mon 32100         Falling a Tros       Son 11/100       Mon 32100         Other Management       Thu 1/100       Thu 1/22100         Mose Maragement Actions       Thu 1/100       Thu 1/22100         Mose Maragement Actions       Thu 1/100       Thu 1/22100         Initial Inspections       Wed 4/1500       Wed 4/1500         Singeneions       Wed 4/1500       Son 52100         Initial Inspections       Wed 4/1500       Son 52100         Annual Spring Insectories       Son 8/100       Son 52100         Spring MovengHay Harvest       Fil 6/1500       Mon 6/1600         Spring MovengHay Harvest       Fil 6/1500       Mon 8/1100         Spring MovengHay Harvest       Sin 8/100       Mon 8/1100         Spring MovengHay Harvest       Sin 8/100       Mon 8/2100         Spring MovengHay Harvest       Sin 8/100       Mon 8/2100         Spring MovengHa	Prost treatment Inspactions       Mon 8010         Shade Control       Thu 10100       Mon 80100         Topping Trons       Shan 10100       Mon 80100         Faling a Tree       Shan 11000       Mon 80100         Feling a Tree       Shan 11000       Thu 120100         Feling Moning Feling Massin       Thu 120100       Thu 120100         Vegetaling Control - Cear Competing Brush       Thu 120100       Thu 120100         Feling Moning Feling Massin       Thu 120100       Thu 120100         Initial Inspectificar       Thu 11000       Thu 1201000         Initial Inspectificar       Weid 41600       Weid 41600         System Feling Massing Inspectificar       Thu 11000       Shan 10000         System Feling Massing Inspectificar       Thu 11000       Mon 101000         System Feling Massing Inspectificar       Shan 100000       Mon 101000         Sh

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ID	Task Name	WHMP Start Date	WHMP Finish Date	Jan '09	Feb '09	Mar '09	Apr '09	May '09	Jun '09	Jul '09	Aug '09	Sep '09	Oct '09	Nov '09	Dec '09	Jan '10	Feb '10	Mar '10	Apr '
89	Fall Fertilization	Tue 9/1/09	Thu 10/15/09								-								
90	Spring Fertilization	Sat 1/31/09	Sun 3/15/09																
91	Lime Application	Sun 3/1/09	Mon 11/30/09																
2	Field Restoration	Thu 1/1/09	Thu 12/31/09																
3	Soil Testing (season prior)	Sat 8/1/09	Mon 8/31/09																
4	Soil Testing (Prior to tillage)	Sun 2/1/09	Sat 2/28/09																
5	Lime Application	Tue 9/1/09	Sat 10/31/09																
6	Herbicide Application Treatment	Sun 3/1/09	Wed 4/15/09																
7	Cultivation	Fri 3/6/09	Thu 4/30/09																
8	Fertilization	Fri 3/6/09	Thu 4/30/09																
)	Seeding/Planting	Fri 3/6/09	Fri 5/1/09																
0	Invasive Plant Control	Thu 1/1/09	Thu 12/31/09																
1	Top Seeding	Wed 4/1/09	Fri 5/15/09																
2	Access/Disturbance Reduction	Thu 1/1/09	Thu 12/31/09																
3	Fertilizing Vegetation Screen	Tue 9/1/09	Thu 10/15/09																
4	Planting	Sun 2/1/09	Tue 3/31/09																
5	Supplemental watering	Wed 7/15/09	Thu 10/15/09																
6	Animal Damage Control	Thu 1/1/09	Thu 12/31/09																
7	Orchards	Thu 1/1/09	Thu 12/31/09																
8	Inspection	Thu 1/1/09	Thu 12/31/09																
9	Winter	Thu 1/1/09	Sun 2/15/09																
0	Summer	Wed 7/1/09	Mon 8/31/09																
		Juled																	
۱2/2	23/09				5 of 12														

				Corp Ei	nergy - Hy	ydro Res	ources												
ID	Task Name	WHMP Start Date	WHMP Finish Date	Jan '09	Feb '09	Mar '09	Apr '09	May '09	Jun '09	Jul '09	Aug '09	Sep '09	Oct '09	Nov '09	Dec '09	Jan '10	Feb '10	Mar '10	Apr '10
111	Optional	Thu 1/1/09	Thu 12/31/09																
112	5-year Inspection	Wed 7/1/09	Mon 8/31/09	-															
113	Pruning	Sun 2/15/09	Fri 7/31/09																
114	Dormant	Sun 2/15/09	Tue 3/31/09																
115	Summer	Fri 5/1/09	Fri 7/31/09																
116	Vegetation Control	Thu 1/1/09	Thu 12/31/09																
117	Shade Tree Control	Sun 8/16/09	Thu 12/31/09																
118	Invasive Plant Species Control	Thu 1/1/09	Thu 12/31/09																
119	Mowing	Sun 8/16/09	Mon 8/31/09	-															
120	New Plantings	Sun 2/1/09	Tue 9/15/09																
121	Replacement Plantings	Sun 2/1/09	Tue 3/31/09	-															
122	New Plantings Inspections	Wed 7/1/09	Tue 9/15/09																
123	Orchard Expansion Planting	Sun 2/1/09	Tue 3/31/09																
124	Big Game Forage	Wed 4/1/09	Sat 10/31/09																
125	Soil Testing	Sat 8/1/09	Mon 8/31/09																
126	Fertilizing	Tue 9/1/09	Thu 10/15/09																
127	Grass Seeding (Spring)	Wed 4/1/09	Fri 5/15/09																
128	Grass Seeding (Fall)	Tue 9/15/09	Sat 10/31/09																
129	Other Management	Thu 1/1/09	Thu 12/31/09																
130	Orchard Tree Fertilizing	Wed 4/1/09	Sun 5/31/09	-															
131	Pest Control	Thu 1/1/09	Thu 12/31/09			1													
132	Animal Damage Control	Thu 1/1/09	Thu 12/31/09																
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on 2/2	23/09				6 of 12														

		Appendi	ix A: 2009 Lewis Rive Pacifi	er Wildlife Habi Corp Energy - I	tat Manag Hydro Res	ement P sources	lan Baseline So	hedule						
ID	Task Name	WHMP Start Date	WHMP Finish Date	lop '00 Ech '00	Mor '00	Apr 100	May '09 Jun '0		Aug '09 Sep '09 Oc		Dec '00	lon '10	Ech '10 M	ar '10 Apr '10
133	Supplemental Water	Wed 7/15/09	Wed 9/30/09	Jan 09 Feb 05		<u>Apr 09</u>				09 1100 09	Dec 09	Jan IU		
134	Transmission Line Rights-of-Way	Thu 1/1/09	Wed 10/15/14											
135	Inspections	Thu 1/1/09	Wed 10/15/14	-										
136	Initial Evaluations with Photo Documentation	Tue 9/15/09	Sat 10/31/09	-										
137	Initial Inspections Final Report	Thu 1/1/09	Thu 12/31/09											
138	Revise Transmission Line Right-of-Way Habitat Management Chapter	Thu 1/1/09	Thu 12/31/09											
139	Annual Inspection	Tue 9/1/09	Thu 10/15/09											
140	Annual Inspection with Photo Documentation	Mon 9/1/14	Wed 10/15/14											
141	Post hazard tree and invasive plant species management inspection	Thu 1/1/09	Thu 12/31/09											
142	Shrub Management	Thu 1/1/09	Thu 12/31/09	-										
143	Shrub Management	Thu 1/1/09	Thu 12/31/09									]		
144	Plantings	Sun 2/1/09	Tue 3/31/09											
145	Vegetation Management	Thu 1/1/09	Thu 12/31/09									]		
146	Invasive Plant Species Control	Thu 1/1/09	Thu 12/31/09	-										
147	Invasive Plant Species Control	Thu 1/1/09	Thu 12/31/09											
148	Aquatic Area Management	Thu 1/1/09	Thu 12/31/09											
149	Aquatic Area Management	Thu 1/1/09	Thu 12/31/09											
150	Big Game Forage Enhancement	Sat 8/1/09	Thu 10/15/09											
151	Soil Testing	Sat 8/1/09	Mon 8/31/09											
152	Annual Mowing	Tue 9/1/09	Thu 10/15/09											
153	Fertilizing	Tue 9/1/09	Thu 10/15/09											
	Baseline Sche	duled												
Mon 2/				7 of 1	>									

		Append	ix A: 2009 Lewis Rive Pacifi	er Wildlif Corp En	ie Habita ergy - Hy	at Manag ydro Re	gemen esourc	nt Plan es	Basel	ine Sche	dule									
ID	Task Name	WHMP Start Date	WHMP Finish Date							1	1.1.00	A	0	0.11				1 14.0		
154	Access/Disturbance Reductions	Thu 1/1/09	Thu 12/31/09		Feb '09	Mar 09		<u>09   M</u>	<u>ay 09</u>	Jun 09	Jui 09	Aug 09	Sep '09		<u>9   NOV (</u>	9 0	ec 109	Jan 10	Feb 10	0 Apr '10
155	Access/Disturbance Reduction	Thu 1/1/09	Thu 12/31/09																	
156	Closing Open Roads	Thu 1/1/09	Thu 12/31/09																	
157	Unique Area /Habitat Management	Thu 1/1/09	Thu 12/31/09																	
158	Inspections	Thu 1/1/09	Thu 12/31/09	-																
159	Annual Oak Stands	Tue 9/15/09	Thu 10/15/09	-																
160	Additional Oak Stands	Thu 1/1/09	Thu 12/31/09																	
161	Other Unique Areas/Habitats	Thu 1/1/09	Thu 12/31/09																	
162	Oak Stand Management	Thu 1/1/09	Thu 12/31/09	-																
163	Topping a Competing Tree and Hand Piling Debris	Thu 1/1/09	Thu 12/31/09																	
164	Falling a competing Tree and Hand Piling Debris	Thu 1/1/09	Thu 12/31/09								:									
165	Invasive Plant Species Control	Thu 1/1/09	Thu 12/31/09																	
166	Cave Management	Thu 1/1/09	Thu 12/31/09	-																
167	Develop Management Strategy	Thu 1/1/09	Thu 12/31/09																	
168	Unique Area Record Management	Thu 1/1/09	Thu 12/31/09	-																
169	Create Unique Area Database	Thu 1/1/09	Thu 12/31/09																	
170	Update Unique Area Database	Thu 1/1/09	Thu 12/31/09																	
171	Ethnobotanically Significant Plant Management	Thu 1/1/09	Thu 12/31/09	-																
172	Develop Management Strategy	Thu 1/1/09	Thu 12/31/09																	
173	Forestland Management	Thu 1/1/09	Thu 12/31/09	-																
174	Inspections	Fri 5/1/09	Thu 12/31/09	-																
175	Spring Timber Harvest Area Survey	Fri 5/1/09	Tue 6/30/09	-																
											<u> </u>									 
	Baseline Sched	luled																		 
Mon 2	/23/09				8 of 12															 

		Append	ix A: 2009 Lewis Rive Pacifi	er Wildlife Habita iCorp Energy - H			an Base	line Sche	edule		
ID	Task Name	WHMP Start Date	WHMP Finish Date		Mar 100	A	May 100	h 100	1.1.00	A	0 10
176	Fall Timber Harvest Survey	Sun 11/1/09	Thu 12/31/09		Mar '09	Apr '09	May '09	Jun '09	Jul '09	Aug '09	Sep '0
177	Management Actions	Thu 1/1/09	Thu 12/31/09								
178	Harvest Planning	Thu 1/1/09	Thu 12/31/09								
179	Harvest Scheduling	Thu 1/1/09	Thu 12/31/09								
180	First Precut Survey	Tue 9/1/09	Thu 12/31/09								
181	Timber Harvest Area Traverse and GIS Update	Thu 1/1/09	Thu 12/31/09								
182	Second Precut Survey	Thu 1/1/09	Thu 12/31/09								
183	TCC On-Site Meeting	Wed 4/1/09	Sun 5/31/09								
184	Timber Harvest Area Logging Inspections	Wed 7/1/09	Wed 9/30/09								
185	Snag Development	Wed 7/15/09	Thu 12/31/09								
186	Regeneration Practices	Thu 1/1/09	Thu 12/31/09								
187	Site Preparation	Wed 7/1/09	Wed 9/30/09								
188	Purchase Forage Mix	Sat 8/1/09	Mon 8/31/09								
189	Forage Seeding	Tue 9/15/09	Wed 9/30/09	_							
190	Invasive Species; Oust	Wed 4/1/09	Fri 5/15/09								
191	Invasive Species (e.g. blackberry, ect.)	Wed 4/1/09	Sun 11/15/09								
192	Precommercial thinning	Thu 1/1/09	Thu 12/31/09								
193	Invasive Plant Species Management	Thu 1/1/09	Thu 12/31/09								
194	Pre-Ground Disturbance Evaluation	Fri 5/1/09	Sun 8/30/09								]
195	Post-Ground Disturbance Evaluation	Fri 5/1/09	Sun 8/30/09								
196	Detection	Thu 1/1/09	Thu 12/31/09								
197	Update State and County Noxious Weed Lists	Thu 1/1/09	Tue 3/31/09								
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	Baseline Sche	eduled									
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9	Oct '09	Nov '09	Dec '09	Jan '10	Feb '10	Mar '10	Apr '10
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10       Control Treatments       The 11/100       The 12/1000         10       Control Treatments with the Oxforing High Water Mark       Sate R15:000       The 110/1000         10       Control Treatments with the Oxforing High Water Mark       Sate R15:000       The 10/1000         10       Report See Management       The 110/1000       Weed 301/100         10       Northern Geshawk Survey       San 3/1500       The 430000         10       Northern Spated Oxi Surveys       San 3/1500       The 430000         10       Sate Asjoined Control Microling       The 430000       The 430000         10       Batel Eagle Naci Oxigency Monitoring       The 430000       The 430000         10       Sate Asjoined Control Roter Monitoring       Sate Asjoiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii	ID	Task Name	WHMP Start Date	WHMP Finish Date	lon /00	Fab 100	Mar 100	Amr 100	May 100			0 See '0	0 Nov 100	lon '10	Eab 110	Mor 1	
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217     Revised Bald Eagle Management Plan     Thu 1/1/09     Thu 12/31/09     Image: Control of the second se	215	Develop a Schedule for Implementing Habitat Enhancement Actions in Old-growth and Mature Stands	Thu 1/1/09	Thu 12/31/09													
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	217	Revised Bald Eagle Management Plan	Thu 1/1/09	Thu 12/31/09													
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	Mon 2/	23/09				10 of 12											

		Append	ix A: 2009 Lewis Rive Pacifi	er Wildli Corp Er	fe Habita ergy - H	at Manag Iydro Re	gement P sources	lan Base	line Sche	dule										
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218	Review and Update Industry Standards for Avian Protection from Power Lines	Tue 12/1/09	Thu 12/31/09	Jan 09	Feb 09		Apr 09	<u>  May 09</u>	Jun '09	Jui 09	Aug 09	) Sep '0		9   N	<u>30 09</u>	Dec '09		<u>) 10 Ma</u>	ar 10	Apr 10
219	Public Access Management	Thu 1/1/09	Thu 12/31/09																	
220	Inspections	Fri 5/1/09	Mon 11/30/09																	
221	Initial Road Evaluation	Fri 5/1/09	Thu 10/15/09																	
222	Initial Road Evaluation on Newly Acquired Lands	Fri 5/1/09	Thu 10/15/09																	
223	Road Closure Inspection	Sun 11/1/09	Mon 11/30/09																	
224	Initial Trail Evaluation	Fri 5/1/09	Thu 10/15/09																	
225	Trail Inspections	Sun 11/1/09	Mon 11/30/09																	
226	Management Actions	Thu 1/1/09	Thu 12/31/09																	
227	Initial Evaluations of Dispersed Shoreline Campsites	Thu 1/1/09	Thu 12/31/09														]			
228	Site Pioneering Monitoring	Tue 9/1/09	Thu 12/31/09																	
229	Site Creep Evaluation	Thu 1/1/09	Thu 12/31/09																	
230	Controlling Unauthorized Motorized Vehicle Use	Thu 1/1/09	Thu 12/31/09																	
231	Visual Screen	Thu 1/1/09	Thu 12/31/09																	
232	Road Construction	Thu 1/1/09	Thu 12/31/09																	
233	Monitoring	Thu 1/1/09	Tue 9/30/25																	
234	Inspections	Thu 7/1/10	Tue 9/30/25																	
235	Year 17 HEP	Tue 7/1/25	Tue 9/30/25																	
236	Newly Acquired Lands	Thu 7/1/10	Thu 9/30/10																	
237	Management Actions	Thu 1/1/09	Thu 12/31/09																	
238	Modify the Goal and Objectives	Thu 1/1/09	Thu 12/31/09							-										
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Mon 2	/23/09				11 of 12															

Appendix A: 2009 Lewis River Wildlife Habitat Management Plan Baseline Schedule PacifiCorp Energy - Hydro Resources																			
ID	Task Name	WHMP Start Date	WHMP Finish Date																
				Jan '09	Feb '09	Mar '09	Apr '09	May '09	Jun '09	Jul '09	Aug '09	Sep '09	Oct '09	Nov '09	Dec '09	Jan '10	Feb '10	Mar '10	Apr '10
239	Revise the WHMP	Thu 1/1/09	Thu 12/31/09				· ·	· · ·			·		- ·		÷				
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	Baseline	Scheduled		
Mon 2/23/09			12 of 12	

Appendix B: Terrestrial Coordination Committee 2009 Annual Plan Consultation Record



Mailing Address: 600 Capitol Way N, Olympia WA 98501-1091, (360) 902-2200, TDD (360) 902-2207 Main Office Location: Natural Resources Building, 1111 Washington Street SE, Olympia WA

March 20<sup>th</sup> 2009

Mr. Kirk Naylor Environmental Supervisor PacifiCorp Energy 825 NE Multnomah, Suite 1500 Portland, Oregon 97232

# RE: WDFW comments on PacifiCorp's 2009 Lewis River Annual Plan

The Washington State Department of Fish and Wildlife (WDFW) appreciates the opportunity to review PacifiCorp's 2009 Annual Plan for management of their mitigation lands under the FERC License Nos. 935, 2071, and 2111. WDFW reviewed your plan independently and during the Terrestrial Coordination Committee (TCC) meeting on March 11<sup>th</sup>, 2009. The purpose of this letter is to express comments and questions regarding the plan.

WDFW appreciates the efforts by PacifiCorp to incorporate our past suggestions and recommendations for management. The annual removal of stop logs in the wetlands to control bullfrog (*Rana catesbeiana*) populations and bolster the presence of native amphibians, Accipiter acoustical surveys, and efforts to improve waterfowl habitat. WDFW looks forward to continued joint efforts with PacifiCorp in future years to enhance habitat in the Lewis River Basin. The comments below are structured by the sections of the Annual Plan.

### Section 6.0 Wetlands

In section 6.2, it states that the only management planed for wetland areas is the removal and replacement of stop logs. WDFW would like to see an assessment of invasive species at these sensitive sites and associated buffers, and control measures considered during the current management year. Early detection and control of invasive species has heightened importance in these sensitive areas, particularly in wetlands that are adjacent to areas of disturbance. During the TCC meeting on March 11<sup>th</sup>, PacifiCorp stated that during the annual inspection an inventory of invasives observed at wetland sites would take place. Control measures will be implemented as necessary.

# Section 9.0 Farmland, Idle Areas, and Meadows Habitat Management

Appendix C, Farmland, Idle Areas, Meadow Budget shows the cost for having the Saddle Dam farm. Are the proceeds from this sale a part of that budget, or are they not included

within the disbursement of funds? PacifiCorp stated at the TCC meeting that there are no funds garnered from the management of the farmlands for hay. This adequately addressed the concern for WDFW.

### Section 13.2 Proposed Forestland Practices

WDFW has some concerns about the proposed access road adjacent to the Saddle Dam area. The plan currently calls for a new 1.47 mile timber access road to be connected with the existing equestrian trail. It is unclear of the existing trail will be improved and expanded in this phase of the project for use by maintenance and timber harvest vehicular traffic, as well as horseback users. In any case, the security of the elk that utilize the area for forage is of primary concern. Increased vehicular traffic of any kind has the capability of stressing elk and would be counterproductive to the goals of the forage fields at the Saddle Dam Farm (Chapter 8, Section 12.2.1, Lewis River Habitat Management Plan (LRHMP), PacifiCorp, 2009).

WDFW feels that the current plan to use the existing equestrian trail as an avenue to access harvest areas should be expanded. From the maps of proposed harvest areas in Unit 17 provided by PacifiCorp, WDFW believes it reasonable to improve and then utilize the trail from the 1710 road for vehicles and equipment to reach most of the proposed areas. A spur road, such as in the current plan, could be created to access the southernmost proposed unit. This would reduce or eliminate the impact of nearly 1.5 miles of new road creation in the unit and would avoid the need to cut in sensitive habitats, such as mature forest stands. PacifiCorp stated that they would be willing to look at additional options for road placement and would approach the TCC at a future date with different options and costs. In addition, an on the ground inspection of the area is planned at during the field visit on April 7<sup>th</sup> and 8<sup>th</sup>.

If it is deemed that a new road must be created, placing the new access road in areas that are in cover would help to avoid disturbance to this important elk forage area. WDFW would like to have proposed placement of the new portion of the road mapped (an approximate sketch would be appropriate) and shown to the TCC for review, or to have the group conduct a site visit to see the on the ground impact of the road. These options will allow the group to make properly informed decisions when reviewing the options for management in these areas.

# 2010 Forestland Harvest Planning

This section describes a proposed total of 31.7 acres for clearcuts. There is mention that the majority of trees to be removed are Red Alder (*Alnus rubra*), but it is unclear if any forest sections currently classified as mature are slated for harvest. Improving habitat, particularly for Northern Spotted Owls (*Strix occidentalis*), is an important task within the LRHMP and WDFW supports those goals and objectives. PacifiCorp stated at the March 11<sup>th</sup> meeting that they believed these areas to be incorrectly cover typed. It was agreed that the TCC would be informed of the new cover typing prior to harvest. Clarification of the planned harvest after additional cover typing is completed will address this concern.

WDFW looks forward to continued efforts between PacifiCorp and our Agency in enhancing, improving, and protecting habitat within the Lewis River Watershed. If you have any questions or comments regarding this letter, please feel free to contact me using the information provided below.

C d

David Geroux Washington State Department of Fish and Wildlife <u>David.Geroux@dfw.wa.gov</u> (360) 902 2539

# DRAFT Meeting Notes Lewis River License Implementation Terrestrial Coordination Committee (TCC) Meeting March 11, 2009 Ariel, WA

# **TCC Participants Present: (10)**

Kendel Emmerson, PacifiCorp Energy
David Geroux, WDFW
Diana Gritten-MacDonald, Cowlitz PUD
Eric Holman, WDFW
LouEllyn Jones, USFWS (via conference call)
Kimberly McCune, PacifiCorp Energy
Kirk Naylor, PacifiCorp Energy
Bob Nelson, RMEF
Nathan Reynolds, Cowlitz Indian Tribe (via conference call)
Bill Richardson, RMEF

### **Calendar:**

0 41 0 11 0 11 0		
April 8, 2009	TCC Meeting	Merwin Hydro Facility
April 9, 2009	ACC Meeting	Merwin Hydro Facility

Assignments from March 11, 2009 Meeting:	Status
Naylor: Email maps to Jones, Leigh and Reynolds depicting a new parcel of	Complete – 3/16/09
interest for potential purchase.	
McCune: Submit an electronic version of the Lewis River WHMP Annual	Complete – 3/19/09
Progress Report Operation Phase 2008 to the TCC following by hard copies	
for the 30-day review and comment period.	

Assignments from February 11, 2009 Meeting:	Status
Moore: Email an invitation to the TCC to participate in field work specific to the dispersed site monitoring methodology during approximately late March 2009.	Complete – 3/11/09 (tentative date is 4/7/09)

Assignments from January 14, 2009 Meeting:	Status
McCune: Distribute Columbia Land Trust media release to the TCC.	Complete – 1/14/09
McCune: Provide Cherie Kearney, Columbia Land Trust contact information	Complete – 1/14/09
to David Geroux, WDFW.	
Naylor/Emmerson: Provide pictures of the high flow damage at the February	Complete – 2/11/09
TCC meeting.	
Moore: Add the time of year and species in the survey protocol section of the	
Lewis River Dispersed Campsites Program - Dispersed Site Monitoring	
Methodology document and mention the size of the drift wood potential and	
the number of pieces.	

Parking lot items from February 10, 2006 Meeting:	Status
PacifiCorp Wildlife Habitat Management Plan (WHMP) Budget (annual)	Complete – 3/11/09
Conservation Agreement – what is wanted?	Ongoing - 4/28/06

### **Review of Agenda and Finalize Meeting Notes**

Kirk Naylor (PacifiCorp Energy) called the meeting to order at 9:05am. Naylor asked if the TCC attendees had any other additions to the agenda. Diana Gritten-MacDonald (Cowlitz PUD) requested the addition of a quick comment about SA 1.2 Limitations language.

David Geroux (WDFW) informed the TCC that due to budget cuts his position with WDFW has been eliminated due to significant decrease in the budget shortfall. Curt Leigh will have involvement with the TCC yet likely limited involvement as Leigh will be taking on added responsibilities due to the budget shortfall. Geroux may be in attendance at the April TCC meeting but no likely thereafter. Geroux will continue to keep the TCC informed as adjustments are made at WDFW in the weeks to come.

Eric Holman (WDFW) does not anticipate change with his position at this time; however it's early in the process.

### Nathan Reynolds (Cowlitz Indian Tribe) joined

Naylor reviewed the TCC Draft February 11, 2009 meeting notes and asked for any comments and/or additional changes. The TCC meeting notes were approved without changes 9:15am.

#### License Update

Olson informed the TCC that the Federal Regulatory Energy Commission (FERC) is reviewing the Wildlife Habitat Management Plan (WHMP); however no word has been received from the FERC yet as to when to expect approval.

#### **Settlement Agreement SA 1.2 - Limitations**

Gritten-MacDonald read the Lewis River Settlement Agreement provision (indicated below) specific to the implementation of the Cowlitz PUD WHMP:

1.2 <u>Limitations</u>. This Agreement establishes no principle or precedent with respect to projects or matters not covered by this Agreement, or with regard to any Party's participation in any other pending or future licensing proceeding. Further, no Party to this Agreement shall be deemed to have approved, accepted, agreed to, or otherwise consented to any operation, management, valuation, or other principle underlying any of the matters covered by this Agreement, except as expressly provided in this Agreement. Without affecting the enforceability of this Agreement, by entering into this Agreement, no Party shall be deemed to have made any admission or waived any contention of fact or law that it did make or could have made in the Relicensing Proceeding. This Agreement shall not be offered as evidence or cited as precedent except in a proceeding to establish the existence of or to enforce or implement this Agreement including filing this Agreement with the Commission under 18 C.F.R. § 385.602. This Section 1.2 shall survive any termination of this Agreement.

### Lands update

Naylor provided updates of interest in certain lands, however, this discussion is considered confidential and proprietary and not for public viewing. Detailed discussion took place regarding one specific parcel of land the TCC may be interested in pursuing further. Naylor will email the maps to Curt Leigh (WDFW), LouEllyn Jones (USFWS) and Nathan Reynolds (Cowlitz Indian Tribe) which depicts the specific location of that certain parcel.

In response to the TCC's inquiry about the status of the PacifiCorp/Columbia Land Trust agreement concerning interests in certain lands, Kimberly McCune (PacifiCorp Energy) informed all those in attendance that the agreement has been signed by both parties. In addition, she informed the TCC attendees that in accordance with *SA 10.2.1 - Swift No. 1 and Swift No. 2 Land Acquisition and Habitat Protection Fund*, PacifiCorp will satisfy the funding requirements on March 26, 2009.

### **Buncombe Hollow Road Repair Update**

Naylor informed the TCC attendees that he met with Clark County Public Works Department (County) and the road is officially closed. Debris has been cleared at the west end; a portion of the road is drivable but potentially unstable. The County is not addressing culvert maintenance/repair at this time; however the County will be stabilizing the road slide areas as soon as final engineering plans are complete. The County will also be discussing timing of road repairs with the WDFW in regards to the eagle nest in the vicinity. PacifiCorp will assist with vegetation selection and placement. Anticipate that work would not be completed any earlier than the end of August.

<Break 10:20am> <Reconvene 10:30am>

# PacifiCorp Wildlife Habitat Management Plan (WHMP) Annual Plan Operation Phase 2009 Discussion

Naylor informed the TCC attendees that PacifiCorp's WHMP 2009 Annual Plan was provided electronically on February 24, 2009 and hard copies were mailed to those who requested one. Comments are due from the TCC on or before March 24, 2009.

Kendel Emmerson (PacifiCorp Energy) began the review of the WHMP Annual Plan and requested any comments and/or edits to **Section 1.0 – Introduction**. McCune indicated that the dates referenced in the third paragraph should be changed to February 24, 2009 and March 24, 2009.

### No comments/edits in Sections 2 through 12.

**Section 13.0 – Forestland Habitat Management,** Geroux requested clarification on which unit was harvested in 2008. Naylor confirmed that the harvest took place in Unit 26. Geroux also inquired if there is opportunity to harvest in other units to minimize harvesting in Unit 17. Naylor

said that there is virtually no elk forage currently available in Unit 17. Discussion also took place regarding a name for the unnamed meadow. Emmerson said that it will likely be named Winter Creek meadow following the completion of initial meadow inspections.

General discussion took place regarding Appendix D and the proposed road alignment in Unit 17 and meadow expansion. A suggestion was made to consider building the proposed road along the same alignments of the existing 1740 road and the equestrian trail to avoid removing mature conifer forest habitat. The equestrian trail was used for the road alignment where possible, but the existing road along the Speelyai Canal (road 1710) has a highly eroded edge and is too undercut to support log trucks. There are several areas in Unit 17 that need vegetation cover type corrections and will be updated as part of the proposed road is almost entirely within Mid-successional conifer forest – not mature forest. The proposed road alignment, timber harvest areas, and meadows will be evaluated with TCC following the next meeting.

### No comments/edits in Sections 14 through 17.

Eric Holman (WDFW) inquired about the status of PacifiCorp's WHMP 2008 Annual Report. Emmerson informed the TCC attendees that the Lewis River WHMP Annual Progress Report Operation Phase 2008 is complete and will be included with the ACC/TCC 2008 Annual Report as Appendix C, which will likely be available for the 30-day review and comment period in late March. WDFW requested a hard copy of the WHMP 2008 Annual Report now, if possible. McCune will submit an electronic version to the TCC followed by hard copies next week for the 30-day review and comment period separately from the ACC/TCC 2008 Annual Report.

### **Trespass Issues**

Naylor provided two maps illustrating encroachment and trespass issues PacifiCorp is experiencing with private land owners. One trespass issue involves a certain property owner who cut down mature alders on PacifiCorp property. Naylor and PacifiCorp's property department have had discussions with the property owner and there is an insurance settlement. Naylor proposed restoring the area by removing the stumps deposited onto PacifiCorp land and replanting with shade tolerant trees. PacifiCorp will follow all the same criteria as the WHMP when they revegetate the disturbed area. All costs of reclamation will not involve WHMP funds.

Naylor informed the TCC attendees that the Unit 4 Encroachment includes the discovery of a new satellite dish, stacked firewood, cleared understory, fiberglass boats and considerable debris on PacifiCorp lands. PacifiCorp has sent letters to the property owner informing them of the encroachment. In addition, surveyors have reposted the line. Property owner has not been cooperative.

### **New Topics/Issues**

A site visit has been tentatively scheduled with the TCC to view dispersed sites on Tuesday, April 7, 2009.

### Next Meeting's Agenda

- Review of 3/11/09 Meeting Notes
- TCC 2009 Meeting Schedule Revisions
- PacifiCorp WHMP 2009 Annual Plan Review & Discussion
- License Update
- Lands Update
- Site Visit to Unit 17

### **Public Comment Opportunity**

No public comment was provided.

### **Next Scheduled Meetings**

April 8, 2009	May 13, 2009
Merwin Hydro Control Center	Merwin Hydro Control Center
Ariel, WA	Ariel, WA
9:00am – 3:00pm	9:00am – 3:00pm

Meeting adjourned at 11:40am

### Handouts

- 1. Agenda
- 2. Draft meeting notes from 2/11/09

Appendix C: 2009 Budget

#### License Year 1 Calendar Year 2009

	Calendar Year 2009	<b>0</b>
	Cost	\$11,000.00
Administration	Percent of Budget	3.51%
	Labor Hours	140
	Percent of Labor	4.14%
	Cost	\$0.00
Old-Growth	Percent of Budget	0.00%
	Labor Hours	0
	Percent of Labor	0.00%
	Cost	\$8,400.00
Wetlands	Percent of Budget	2.68%
	Labor Hours	112
	Percent of Labor	3.31%
	Cost	\$3,450.00
Riparian	Percent of Budget	1.10%
··· <b>P</b> ······	Labor Hours	10
	Percent of Labor	0.30%
	Cost	\$6,000.00
Shrubland	Percent of Budget	0.00%
oniubiana	Labor Hours	80
	Percent of Labor	2.36%
	Cost	\$40,800.00
Farmland, Meadow, Idle Areas	Percent of Budget	13.02%
i annianu, meauow, iule Aleas	Labor Hours	436
	Percent of Labor	12.88%
	Cost	\$9,925.00
Orchard	Percent of Budget	3.17%
Orchard	Labor Hours	125
	Percent of Labor	3.69%
	Cost	\$11,550.00
Transmission Line Diable of Marc	Percent of Budget	3.69%
Transmission Line Right-of-Way	Labor Hours	154
	Percent of Labor	4.55%
	Cost	\$1,800.00
	Percent of Budget	0.57%
Unique Area	Labor Hours	24
	Percent of Labor	0.71%
	Cost	\$174,020.00
	Percent of Budget	55.53%
Forestland	Labor Hours	1994
	Percent of Labor	58.91%
	Cost	\$18,025.00
	Percent of Budget	5.75%
Invasive Plant Species	Labor Hours	107
	Percent of Labor	3.16%
	Cost	\$14.125.00
_	Percent of Budget	4.51%
Raptor	Labor Hours	95
	Percent of Labor	2.81%
	Cost	\$14,300.00
	Percent of Budget	4.56%
Public Access Management	Labor Hours	108
	Percent of Labor	3.19%
	Cost	\$0.00
	Percent of Budget	0.00%
Monitoring	Labor Hours	0
	Percent of Labor	0.00%
	Total Cost	\$313,395.00
	Total Percent of Budget Spent	98.08%
	Total Labor Hours	3385
	Remaining Funds from Previous Year	\$0.00
	WHMP Acres <sup>1</sup>	10,085
Annual WHMP Budget	Cost Per Acre <sup>2</sup>	\$31.08
	Sum Total	\$313,398.43
	A delitie a static D Even dia a	\$0.00
	Additional HEP Funding	
	Total Budget (Annual + Remaining) Total Budget Remaining (Budget- Cost)	\$313,398.43 \$3.43

<sup>1</sup> WHMP acres is from the Lewis River Wildlife Habitat Management Plan Standards & Guidelines Document (July 2006).

<sup>2</sup> Cost per acre is determined on the \$27 per acre stated in Section 10.8.2.1 of the Settlement Agreement and adjusted for inflation at 2008 using the following inflation calculator http://www.bls.gov/data/inflation\_calculator.htm

### Administration Budget

	ealeria			
Management Actions	Frequency	Estimated Effort	Hours	Cost
Annual Report	Annually	70 hours	70	\$5,250.00
Annual Plan	Optional	70 hours	70	\$5,250.00
		Labor rate per hour	\$7	5.00
		Total Labor	140	\$10,500.00
Materials				
Annual Report and Plan	Reproduction		\$50	00.00
Other			\$(	0.00
		Total Materials	\$50	00.00
		Total Labor and Materials	\$11,	000.00

### Old-Growth Budget

Management Actions	Frequency	Estimated Effort	Hours	Cost
Initial Evaluation	Within 5 years of WHMP Implementation	140 hours	0	\$0.00
Aerial Surveys	Annually	0 hours	0	\$0.00
Ground Surveys	Optional	4 hours per inspection	0	\$0.00
Snag Development	Optional	4 hours per tree	0	\$0.00
Thinning	Optional	Unknown	0	\$0.00
Large Woody Debris Placement	Optional	Unknown	0	\$0.00
Mature Stand Connectivity	Within 5 years of WHMP Implementation	225 hours	0	\$0.00
		Labor rate per hour	\$75	5.00
		Total Labor	0	\$0.00
Materials				
Other			\$0	.00
		Total Materials	\$0	.00
		Total Labor and Materials	\$0	.00

### Wetland Budget

	Calendar Year 2009			
Management Actions	Frequency	Estimated Effort	Hours	Cost
Initial Evaluation	Within 5 years of WHMP Implementation	180 hours	0	\$0.00
Initial Evaluation Final Report	Within 5 years of WHMP Implementation	80 hours	0	\$0.00
Annual Inspection	Annually	80 hours	80	\$6,000.00
Annual Inspection with unmanaged wetlands	Every 5 years	140 hours	0	\$0.00
Post-Treatment Inspection	Optional	4 hours per inspection	0	\$0.00
Diversion Draw Down	Optional	3 hours per draw down	0	\$0.00
Remove 1 to 2 stop logs for high winter flows	Annually	16 hours	16	\$1,200.00
Replace 1 to 2 stop logs for high winter flows	Annually	16 hours	16	\$1,200.00
Dike Maintenance	Optional	Unknown	0	\$0.00
Surrounding wetland vegetation	Optional	4 hour per site	0	\$0.00
Tree topping or pruning to enhance existing shrubs	Target Year 17	3 hours per tree	0	\$0.00
Shrub Planting	Target Year 17	1 hour per planting	0	\$0.00
Loafing log	Within 5 years of completing the initial evaluation	3 hours per tree	0	\$0.00
Snag Creation	Within 5 years of completing the initial evaluation	3 hours per tree	0	\$0.00
Aquatic Vegetation Control	Optional	0.5 hour per acre	0	\$0.00
Implement Bullfrog Management Methods Identified in the Initial Evaluation	Within 5 years of completing the initial evaluation	40 hours	0	\$0.00
Remove Stoplogs	Annually	16 hours	16	\$1,200.00
Replace Stoplogs	Annually	16 hours	16	\$1,200.00
Review WDNR Heritage Database	Annually	2 hours	2	\$150.00
Great Blue Heron Colony Site Management Report	Optional	15 hours	0	\$0.00
		75.00		
		Total Labor	112	\$8,400.00
Materials				
Shrub Planting \$50 per planting				50.00
Other				50.00
		Total Materials		00.00

### **Riparian Budget**

		003		
Management Actions	Frequency	Estimated Effort	Hours	Cost
Riparian Mixed Forest Stand Evaluations	Within 5 years of receiving the license	200 hours	0	\$0.00
Other Inspections	Optional	4 hours per site	0	\$0.00
Establish Buffers	Optional	1 hour per 100 ft (30 m) of stream	10	\$750.00
Water Type Modification form	Optional	4 hours per form	0	\$2,700.00
Snag Development Schedule	Within 1 year of completing the Riparian Mixed Forest Stand	50 hours	0	\$0.00
Snag Removal	Optional	3 hours per 1-20 in (50 cm) diameter at breast height Douglas-fir	0	\$0.00
Riparian Area Restoration	Within 5 years of identifying a damaged riparian area	To be determined	0	\$0.00
		Labor rate per hour	\$7	75.00
		Total Labor	10	\$3,450.00
Materials				
Other				0.00
		Total Materials		0.00
	Total	Labor and Materials	\$3,	450.00

### Shrublands

Management Actions	Frequency	Estimated Effort	Hours	Cost
Initial Evaluation	Within 4 years of WHMP Implementation	80 hours	80	\$6,000.00
Initial Evaluation Final Report	Within 1 year of completing the initial evaluation	30 hours	0	\$0.00
15-year Evaluation	annually	50 hours	0	\$0.00
Success of Action	Annually	15 hours	0	\$0.00
Topping a Tree and Hand Piling Debris	Optional	4 hour per tree	0	\$0.00
Falling a tree and hand piling debris	Optional	3 hour per tree	0	\$0.00
Herbicide Injection	Optional	1.5 hours per tree	0	\$0.00
Heavy Pruning Circle	Optional	5.5 hours per planting circle	0	\$0.00
Vegetation Control - Clear Competing Brush	Optional	1.75 hour per 10 foot radius of vegetation	0	\$0.00
Revised Management Actions	Within 8 years of WHMP Implementation	100 hours	0	\$0.00
		Labor rate per hour		\$75.00
		Total Labor	80	\$6,000.00
Vaterials				
Other				\$0.00
Total Materials			\$0.00	
	T	otal Labor and Materials	\$6	6,000.00

### Farmland, Idle Areas, Meadow Budget

Management Actions	Frequency	Estimated Effort	Hours	Cost
Initial Inspection	Within 4 years of WHMP Implementation	60 hours	0	\$0.00
Initial Inspection Final Report	Within 1 year of completing the initial	60 hours	0	\$0.00
Annual Spring Inspections	Annually	40 hours	40	\$3,000.00
5-year Passively Managed Area Inspections	Every 5 years	80 hours	0	\$0.00
Annual Fall Inspection	Annually	40 hours	40	\$3,000.00
Spring Mowing/ Hay Harvest	Annually	2 hours per acre	56	\$4,200.00
Fall Mowing/ Hay Harvest	Annually	2 hours per acre	140	\$10,500.00
Soil Test	Annually	2 hours per site	20	\$1,500.00
Fall Fertilization	Annually	2 hours per acre	140	\$10,500.00
Spring Fertilization	Optional	2 hours per acre	0	\$0.00
Lime Application	Optional	2 hours per acre	0	\$0.00
Soil Test (Field Restoration)	Optional	2 hours per site	0	\$0.00
Lime Application (Field Restoration)	Optional	2 hours per acre	0	\$0.00
Herbicide Application Treatment	Optional	2 hours per acre	0	\$0.00
Cultivation	Optional	4 hours per acre	0	\$0.00
Fertilization	Optional	2 hours per acre	0	\$0.00
Seeding/planting	Optional	2 hours per acre	0	\$0.00
Invasive Plant Control	Optional	2 hours per acre	0	\$0.00
Top Seeding	Optional	4 hours per acre	0	\$0.00
Fertilizing Vegetation Screening	Optional	2 hours per screen	0	\$0.00
Planting	Optional	4 hours per planting	0	\$0.00
Supplemental Watering	Optional	1 hour per exclosure	0	\$0.00
Animal Damage Control	Optional	1 hour per exclosure	0	\$0.00
		_abor rate per hour		\$75.00
		Total Labor	436	\$32,700.00
Materials				
Soil Testing (Assume \$40 per	test with 10 test per year)			\$400.00
Fertilizer (Assume \$100 per ac	cre in materials)		\$	\$7,000.00
Fertilizer Unit 17 Meadow (\$100 per acre for field restoration)			\$250.00	
Lime Application Unit 17 Meadow (Assume \$100 per acre)			\$250.00	
Herbicide for Field Restoration (\$30 per acre treated)			\$0.00	
Grass Seed for Unit 17 meadow (Assume \$4 per pound)			\$200.00	
Exclosures for new plantings (\$200 per exclosure)			\$0.00	
New plantings (\$25 per seedling	New plantings (\$25 per seedling)			\$0.00
Other			\$0.00	
		Total Materials		58,100.00
	Total La	bor and Materials	\$	40,800.00

### **Orchard Budget**

### Calendar Year 2009 License Year 2009

Management Actions	Frequency	Estimated Effort	Hours	Cost	
Winter Inspection	Annually	16 hours	16	\$1,200.00	
Summer Inspection	Annually	16 hours	16	\$1,200.00	
Optional Inspection	Optional	8 hours	0	\$0.00	
5-year Inspection	Within 5 years of WHMP Implementation	40 hours	0	\$0.00	
Dormant Pruning	Optional	1 hour per tree	60	\$4,500.00	
Summer Pruning	Optional	1 hour per tree	0	\$0.00	
Shade Tree Control	Optional	2 hours per planting	0	\$0.00	
Invasive Plant Species Control	Optional	2 hours per acre	0	\$0.00	
Mowing	Annually	2 hours per acre	25	\$1,875.00	
Replacement Plantings	Optional	2 hours per planting	4	\$300.00	
New Plantings Inspection	Optional	2 hours per planting	4	\$300.00	
Orchard Expansion Plantings	2014	4 hours per planting	0	\$0.00	
Soil Testing	Optional	2 hours per orchard	0	\$0.00	
Fertilizing	Optional	2 hours per acre	0	\$0.00	
Grass Seeding	Optional	2 hours per acre	0	\$0.00	
Orchard Tree Fertilizing	Optional	1 hour per tree	0	\$0.00	
Pest Control	Optional	1 hour per tree	0	\$0.00	
Animal Damage Control	Optional	1 hour per tree	0	\$0.00	
Supplemental Watering	Optional	1 hour per tree	0	\$0.00	
		Labor rate per hour	\$	75.00	
		Total Labor	125	\$9,375.00	
Materials					
Exclosures (\$200 per exclosure)				\$500.00	
New seedlings (\$25 per tree)			•	50.00	
Fertilizer (Assume \$100 per acre in materials)			-	60.00	
Grass Seed (Assume \$4 per pound)				60.00	
Other			-	0.00	
		Total Materials	•	50.00	
	Tot	al Labor and Materials	\$9,	925.00	

## Transmission Line Right-of-Way Budget

Managament Actions	۲ Calendar Frequency	Estimated Effort	Hours	Cost
Management Actions Initial Evaluations with Photo		Estimated Enort	Tiours	0031
Documentation	Within 5 years of WHMP Implementation	130 hours	130	\$9,750.00
	Within 1 year of			
Initial Inspections Final	completing the initial	40 hours	0	\$0.00
Report	evaluation	40 110013	0	ψ0.00
Revise Transmission Line				
Rights-of-Way Habitat	Within 5 years of WHMP	20 hours	0	\$0.00
Management Chapter	Implementation		Ū	<i>Q</i> <b>O O O</b>
Annual Inspections	Annually	50 hours	0	\$0.00
Annual Inspections with	Every 5 years beginning			
Photo Documentation	with initial inspection year	100 hours	0	\$0.00
Post hazard tree and	Within 2 months of a		0	<b>*</b> •••••
invasive species	management actions	2 hours per site	0	\$0.00
management inspection	being completed	A h avera	0	<b>*</b> 0.00
Shrub Management	Optional	4 hours	0	\$0.00 \$0.00
Plantings	Optional	4 hours per planting	0	
Vegetation Management Invasive Plant Species	Optional	2 hours per tree	0	\$0.00
Control	Optional	4 hours per acre	0	\$0.00
Aquatic Area Management	Optional	Unknown	0	\$0.00
Soil Testing	Every 2 years	2 hours per site	0	\$0.00
Annual Mowing	Annual	2 hours per acre	24	\$1,800.00
Fertilization	Optional	2 hours per acre	0	\$0.00
Access/Disturbance			0	
Reduction	Optional	2 hours per site	0	\$0.00
Closing Open Roads	Within 5 years of WHMP	4 hours per site	0	\$0.00
Closing Open Roads	Implementation	4 hours per site	0	φ0.00
		Labor rate per hour	\$7	75.00
		Total Labor	154	\$11,550.00
Materials				
Soil Testing (Assume \$40 per	r test with 6 test per year)		\$	0.00
Fertilizer (Assume \$100 per a	acre in materials)		\$	0.00
Exclosures (\$200 per exclosu	ıre)		\$	0.00
Plantings (\$50 per planting)			\$	0.00
Other				0.00
		Total Materials	\$	0.00
	To	tal Labor and Materials	\$11	550.00

License Year 1

Total Labor and Materials

\$11,550.00

### **Unique Areas Budget**

	Calendar Year 200	9		
Management Actions	Frequency	Estimated Effort	Hours	Cost
Annual Oak Stand	Annual	16 hours	16	\$1,200.00
Additional Oak Stands	Optional	4 hours per area	0	\$0.00
Other Unique Areas	Optional	4 hours per area	0	\$0.00
Topping a Competing Tree and Hand Piling Debris	Optional	2 men x 1.5 hour per 1 20-in dbh Douglas- fir tree 1 hour for reporting	0	\$0.00
Falling a Competing Tree and Hand Piling Debris	Optional	2 men x 1 hour per 1- 20 in dbh Douglas-fir tree 1 hour for reporting	0	\$0.00
Invasive Plant Species Control	Optional	1 hour per acre	0	\$0.00
Develop Cave Management Strategy	Optional	10 hours	0	\$0.00
Create a Unique Area Database	Within 1 year of Implementation	8 hours	8	\$600.00
Update Unique Area Database	Optional	2 hours	0	\$0.00
Develop Ethnobotanically Significant Plant Management Strategy	Optional	10 hours	0	\$0.00
Labor rate per hour				\$75.00
		Total Labor	24	\$1,800.00
<b>N</b> aterials				
Other				\$0.00
		Total Materials		\$0.00
	Total	Labor and Materials	\$1	,800.00

### Forestland Budget

Management Actions	Frequency	Estimated Effort	Hours	Cost
Spring Timber Harvest Area Survey	Annually	40 hours	20	\$1,500.00
Fall Timber Harvest Area Survey	Annually	140 hours	140	\$10,500.00
Harvest Planning	Optional	40 hours	40	\$3,000.00
Harvest Scheduling	Optional	8 hours	8	\$600.00
First Precut Survey	Optional	1 hour per acre	36	\$2,700.00
Timber Harvest Area Traverse and GIS Update	Optional	24 hours	24	\$1,800.00
Second Precut Survey	Optional	2.5 hours per acre	75	\$5,625.00
Terrestrial Coordination Committee On-Site Meeting	Optional	16 hours	0	\$0.00
Timber Harvest Area Logging Inspections	Optional	60 hours	60	\$4,500.00
Snag Development	Optional	2 hours per tree	60	\$4,500.00
Site Preparation	Optional	12 hours per 10 acres plus 10 hours	54	\$4,050.00
Forage Seeding	Optional	24 hours	24	\$1,800.00
Invasive Plant Species - grasses	Optional	0.5 hour per acre	16	\$1,200.00
Invasive Plant Species - competing vegetation	Optional	2.8 hours per acre	816	\$61,200.00
Pre-commercial thinning	Optional	1.25 hour per acre	621	\$46,575.00
		Labor rate per hour		\$75.00
		Total Labor	1994	\$149,550.00
Materials				
Forage seed mix				\$1,200.00
Chemicals (\$50.00 per acre)			9	\$16,000.00
Cedar (2200 trees x 0.40), Pine (600 trees x 0.3) and Hemlock (700 x 0.3 trees)				\$1,270.00
Vexar Tubes and stakes				\$6,000.00
		Total Materials	9	\$24,470.00
	Total	Labor and Materials	\$	174,020.00

### Invasive Plant Species Budget

Management Actions	Frequency	Estimated Effort	Hours	Cost
Pre-Ground Disturbance Evaluation	Optional	1.0 hour per site	25	\$1,875.00
Post-Ground Disturbance Evaluation	Optional	1.0 hour per site	0	\$0.00
Detection	Optional	0.5 hour per site	25	\$1,875.00
Update State and County Noxious Weed lists	Annual	2 hours per year	2	\$150.00
Control Treatments	Optional	0.5 hour per acre	50	\$3,750.00
Control treatments within the ordinary high water mark	Optional	0.5 hour per acre	5	\$375.00
Monitoring	Optional	0.5 hour per site	0	\$0.00
		Labor rate per hour		\$75.00
		Total Labor	107	\$8,025.00
Materials				
Chemicals			\$10,000.00	
Other				\$0.00
		Total Materials	\$1	0,000.00
	7	Total Labor and Materials	\$1	8,025.00

### **Raptor Budget**

Management Actions	Frequency	Estimated Effort	Hours	Cost
Dawn Acoustical Survey for Northern Goshawk	Optional	5 hours per survey station (18 ac [ 7 ha])	0	\$0.00
Intensive Search Survey for Northern Goshawk	Optional	20 hours per 25 ac (10 ha)	0	\$0.00
Broadcast Acoustical Survey for Northern Goshawk	Optional	8 hours per 494 ac (200 ha)	45	\$3,375.00
Northern Spotted Owl Surveys	Optional	4 hours per 10 survey stations	0	\$0.00
Peregrine Falcon Monitoring Protocol	Optional	15 hours per potential nest site	0	\$0.00
Aerial Survey for Bald Eagle Nest Occupancy	Annually	24 hours	24	\$1,800.00
Aerial Survey for Osprey Nest Occupancy and Bald Eagle Nest Productivity	Annually	24 hours labor	24	\$1,800.00
Known Communal Roost Monitoring	Optional	5 hours per survey per observer	0	\$0.00
Potential Communal Roost Monitoring	Optional	6 hours per survey per observer	0	\$0.00
Evaluate Mature and Old-growth Stands for Raptor Habitat Quality and Potential Enhancement	Within 5 years of WHMP Implementation	2 hours per ac (0.4 ha) time is accounted for in Old-growth	0	\$0.00
Develop a Schedule for Implementing Habitat Enhancement Actions in Old-growth Stands and Mature Stands	Within 1 year of Completing Mature and Old-growth Stands Evaluations	20 hours	0	\$0.00
Complete Bald Eagle Management Plan	Within 3 years of WHMP Implementation	80 hours	0	\$0.00
Revise Bald Eagle Management Plan to include new nest and roost sites	As Needed Within 1 Year of Discovery	10 hours	0	\$0.00
Review and Update Industry Standards for Avian Protection from Power lines	Annually	2 hours	2	\$150.00
		Labor rate per hour		5.00
		Total Labor	95	\$7,125.00
Materials				
Helicopter flight \$3500 per flight 2 flig	ghts per year		\$7,0	00.00

Helicopter flight \$3500 per flight 2 flights per year	\$7,000.00
Other	\$0.00
Total	Materials \$7,000.00
Total Labor and	Materials \$14,125.00

### Public Access Budget

#### License Year 2009 Calendar Year 2009

Management Actions	Frequency	Estimated Effort	Hours	Cost
Initial Road Evaluation	Within 5 years of Wildlife Habitat Management Plan Implementation		0	\$0.00
Initial Road Evaluation on Newly Acquired Lands	Within 1 year of acquiring lands	2.0 hour per mile of road	0	\$0.00
Road Closure Inspection	Annually	60 hours	60	\$4,500.00
Initial Trail Evaluation	Within 5 years of Wildlife Habitat Management Plan Implementation	16	16	\$1,200.00
Trail Inspection	Annually	12	0	\$0.00
Initial evaluations of Dispersed Shoreline Campsites	Within 1 year of receiving a new license	50 hours	0	\$0.00
Site Pioneering Monitoring	Annually	10 hours	0	\$0.00
Site Creep Evaluation	Every 4 years	40 hours	0	\$0.00
Controlling unauthorized motorized vehicle use	Optional	8 hours per site	24	\$1,800.00
Visual Screen	Optional	4 hours per site	0	\$0.00
Road Construction	Optional	8 hours per site	8	\$600.00
		Labor rate per hour		\$75.00
		Total Labor	108	\$8,100.00
Materials				
Exclosures (\$200 per exclosure	e)			\$0.00
Plantings (\$50 per planting)		\$0.00		
Signs (\$300 per 100 vinyl purchase every 3 years)				\$0.00
Heavy Equipment Rate (\$200 per hour)				3,200.00
Road Barriers (blocks, rocks, etc)				3,000.00
Other		\$0.00		
		Total Materials		6,200.00
	To	tal Labor and Materials	\$1	4,300.00

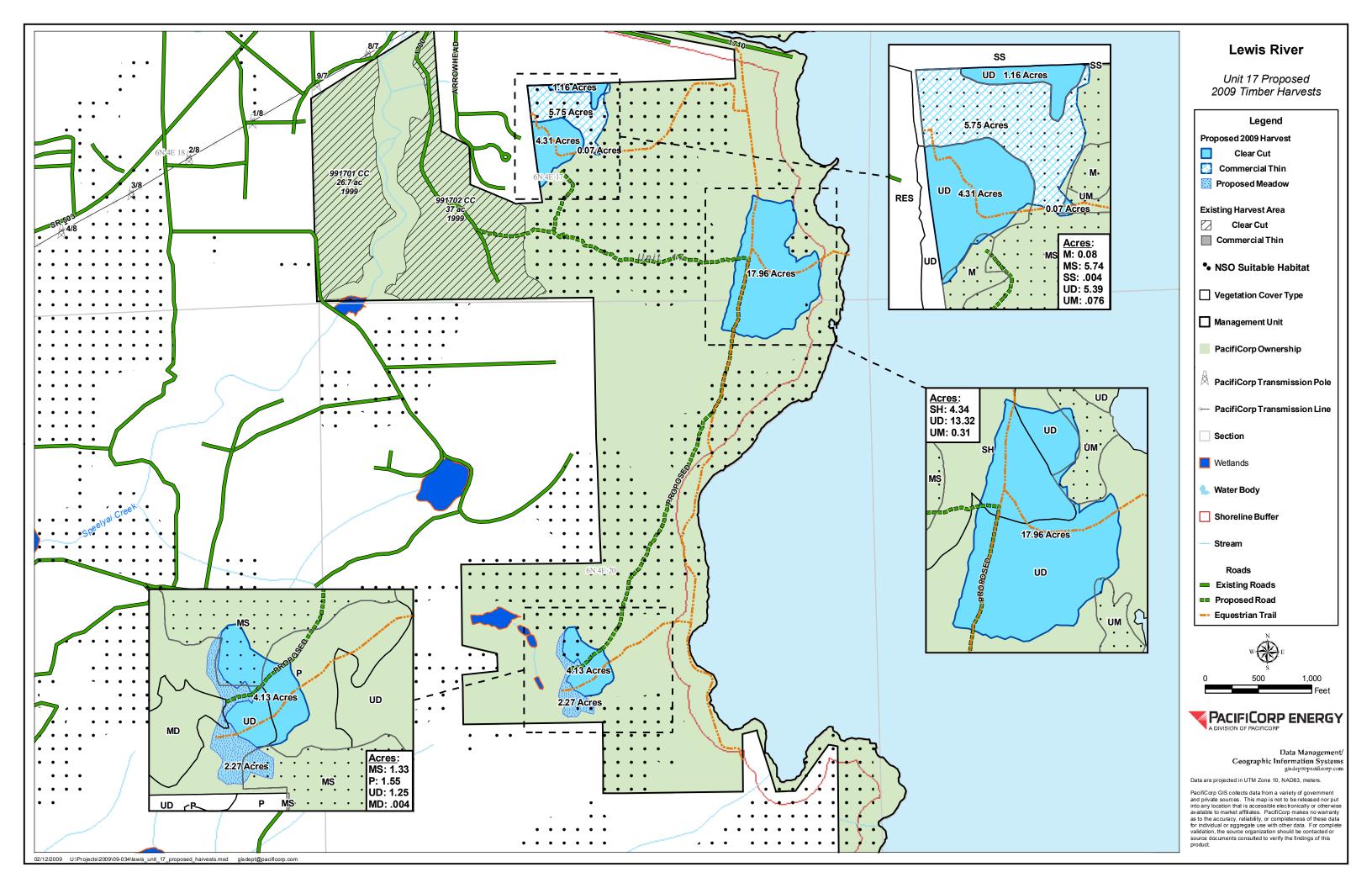
Total Labor and Materials

\$14,300.00

## Monitoring Budget

Management Action	Frequency	Estimated Effort	Hours	Cost
Year 17 Habitat Evaluation Procedure	Target Year 17	estimated 4 hours per plot plus a total 100 hours for analysis	0	\$0.00
Newly Acquired Lands	Estimated to be completed by year 6	estimated 4 hours per plot plus a total 25 hours for analysis	0	\$0.00
Modify the Goal and Objectives	Optional	10 hours	0	\$0.00
Revise the Wildlife Habitat Management Plan	Optional	10 hours	0	\$0.00
		Labor rate per hour	\$7	5.00
		Total Labor	0	\$0.00
Materials				
Other				0.00
		Total Materials	\$(	0.00
		Total Labor and Materials	\$(	0.00

Appendix D: 2009 Proposed Timber Harvest Areas Map, Wildlife/Forestry Evaluation Forms, and Sensitive Species/Habitat Assessment



Timber Harvest	Vegetation Cover Types within Timber Harvest Areas					
Area Identification <sup>1</sup>	Upland Deciduous Ac (ha)	Mid- successional Ac (ha)	Shrubland Ac (ha)	Pole Conifer Ac (ha)	Upland Mix Ac (ha)	Total Ac (ha)
091701	5.4 (2.2)	5.7 (2.3)	0.0 (0.0)	0.0 (0.0)	0.1 (0.04)	11.2 (4.6)
091702	13.3 (5.4)	0.0 (0.0)	4.3 (1.7)	0.0 (0.0)	0.3 (0.1)	17.9 (7.2)
091703	1.3 (0.5)	1.3 (0.5)	0.0 (0.0)	1.6 (0.6)	0.0 (0.0)	4.2 (1.7)

### **Proposed Timber Harvest Area and Vegetation Cover Types**

<sup>1</sup> Tentative identification numbers

### **Unit 17 Vegetation Cover Types and Cover:Forage Ratio**

Cover vs.		Uni	it 17
Forage	Vegetation Cover Types	Current	After Harvest
Toruge		ac (ha)	ac (ha)
	Old-growth Conifer	0.0 (0.0)	0.0 (0.0)
	Mature Conifer	9.2 (3.7)	9.2 (3.7)
	Mid-Successional Conifer	140.4 (56.8)	133.4 (54.0)
•	Mid-Successional Conifer -thinned	0.0 (0.0)	0.0 (0.0)
Cover	Upland Mixed (thermal cover site specific)	34.0 (13.8)	33.6 (13.6)
C	Upland Mixed -thinned (thermal cover site specific)	0.0(0.0)	0.0(0.0)
	Young Upland Mixed (thermal cover site specific)	0.0 (0.0)	0.0(0.0)
	Pole Conifer	8.6 (3.5)	7.0 (2.8)
	Lodgepole Pine	0.0(0.0)	0.0 (0.0)
	Riparian Mixed	0.0 (0.0)	0.0 (0.0)
	Young Upland Deciduous	0.0 (0.0)	0.0 (0.0)
	Pole Conifer - thinned	0.0 (0.0)	0.0(0.0)
	Riparian Deciduous Shrub	0.0 (0.0)	0.0 (0.0)
	Riparian Deciduous	22.4 (9.1)	22.4 (9.1)
	Upland Deciduous	126.1 (51.0)	104.2 (42.2)
	Oak Woodland	0.0(0.0)	0.0 (0.0)
Forage	Transmission Line ROW	1.2 (0.5)	1.2 (0.5)
)ra	Recreational	0.0(0.0)	0.0(0.0)
FG	Dry Meadow/Grassland	4.8 (1.9)	7.1 (2.9)
	Shrubland <sup>1</sup>	55.9 (22.6)	51.6 (20.9)
	Orchard	0.0 (0.0)	0.0 (0.0)
	Agriculture	0.0 (0.0)	0.0(0.0)
	Seedling/Sapling Conifer	0.4 (0.2)	0.4 (0.2)
	New Clearcut	63.7 (25.8)	97.1 (40.2)
	Wetland (Palustrine Wetland Cover Types)	1.6 (0.7)	1.6 (0.7)
	Riverine Unconsolidated Shore	0.0 (0.0)	0.0 (0.0)
ther	Sparsely vegetated; Disturbed; Developed	0.0 (0.0)	0.0 (0.0)
Neither	Residential	3.7 (1.5)	3.7 (1.5)
	Rock Outcropping and Talus	0.0 (0.0)	0.0 (0.0)
	Total Acres (ha)	472.0 (191.0)	472.0 (191.0)
	Cover:Forage Ratio <sup>2</sup>	37:63	32:68

<sup>1</sup> Shrubland acres are pending the initial inspection – actual shrubland acres won't be harvested.

<sup>2</sup>The cover:forage ratio will adjust pending the shrubland inspections

### **Riparian, Shoreline, and Wetland Areas**

Unit 17 has very few wetlands or streams and as a result the proposed timber harvest and roads are able to remain outside of the designated buffers for wetlands, shorelines, and streams.

### **Raptor Site Management**

### Bald Eagle

The proposed timber harvest areas are greater than 1.0 mile (1.6 km) from any known bald eagle nest or communal roosts.

#### Northern Spotted Owl

#### Limited Operating Period:

The proposed timber harvest areas will remove roosting and foraging habitat for spotted owls (i.e., upland mixed and mid-successional vegetation cover types). As a result the timber harvest will be subject to the early season limited operating period of March 1 to June 30.

#### Suitable and Dispersal Habitat:

Unit 17 is not within any spotted owl management areas (i.e., Objective h, i, or j lands) and the proposed timber harvest areas are greater than 2 miles (3.2 km) from known spotted owl activity centers. However, suitable and dispersal habitat for spotted owls will be removed as part of the proposed timber harvests. The table on the following page demonstrates compliance with the Biological Opinion and compares current acres of suitable and dispersal habitat for spotted owls to the remaining acres following timber harvest for both Unit 17 and the overall WHMP lands.

#### Other Raptors

The only known raptor nest within 0.5 miles (0.8 km) of the proposed timber harvest areas is a sharp-shinned hawk nest. The nest is located

. If the

nest site is occupied in 2009, then THA 091701 would not be implemented. However, the other proposed THAs and roads are outside of the habitat and disturbance thresholds (i.e. greater than 660 ft (201 m) from the nest site) and will not be restricted to the limiting operating period (April 15 through August 31). If the nest site is unoccupied, then the proposed 091701 THA would occur and would include clearcutting the upland deciduous stands adjacent to the nest site, and thinning the mid-successional stand surrounding the nest site while maintaining the nest tree. The nest tree was identified during the second protocol survey (August 12) and initial layout of the THA was completed after the first survey (June 17 – June 26) had not initiated any response. Final timber harvest area plan will be determined following the 2009 broadcast surveys.

riorinerii spotted or	vi Suitable and Dispersa	t 17	WHMI	P Lands	
Vegetation Cover Type	Habitat Type	Current Acres (ha)	After Harvest Acres (ha)	Current Acres (ha)	After Harvest Acres (ha)
Old-growth Conifer	Nesting, Roosting Foraging, Dispersal	0.0 (0.0)	0.0 (0.0)	166.5 (67.4)	166.5 (67.4)
Mature Conifer	Nesting, Roosting Foraging, Dispersal	9.2 (3.7)	9.2 (3.7)	712.7 (288.4)	712.7 (288.4)
Mid-Successional Conifer	Roosting, Foraging, Dispersal	140.4 (56.8)	133.4 (54.0)	2101.5 (850.4)	2094.5 (848.0)
Upland Mixed	Roosting, Foraging, Dispersal	34.0 (13.8)	33.6 (13.6)	2255.9 (912.9)	2255.5 (912.8)
Riparian Mixed	Roosting, Foraging, Dispersal	0.0 (0.0)	0.0 (0.0)	202.3 (81.9)	202.3 (81.9)
	<b>Total Suitable Habitat</b> (Nesting +Roosting + Foraging)		176.2 (71.3)	5438.9 (2201.1)	5431.5 (2198.1)
Pole Conifer	Dispersal	8.6 (3.5)	7.0 (2.8)	896.2 (362.7)	894.6 (362.0)
	<b>otal Dispersal Habitat</b> Habitat + Pole Conifer)	192.2 (77.8)	183.2 (74.1)	6335.1 (2564.8)	6326.1 (2560.1)
Young Upland Mixed	Non-habitat	0.0 (0.0)	0.0 (0.0)	254.1 (102.8)	254.1 (102.8)
Upland Deciduous	Non-habitat	126.1 (51.0)	104.2 (42.2)	1602.1 (648.3)	1580.2 (639.5)
Young Upland Deciduous	Non-habitat	0.0 (0.0)	0.0 (0.0)	70.8 (28.7)	70.8 (28.7)
Lodgepole Pine	Non-habitat	0.0 (0.0)	0.0 (0.0)	73.0 (28.7)	73.0 (28.7)
Riparian Deciduous	Non-habitat	22.4 (9.1)	22.4 (9.1)	185.1 (74.9)	185.1 (74.9)
Seedling/Sapling Conifer	Non-habitat	0.4 (0.2)	0.4 (0.2)	389.7 (157.7)	389.7 (157.7)
New Clearcut	Non-habitat	63.7 (25.8)	97.1 (40.2)	617.3 (249.8)	650.7 (263.3)
Fo	3192.1 (1292)	3203.6 (1296.5)			
Total Ext	9527.2 (3856.7)	9529.7 (3856.7)			
<b>Percent of Dispersal Habitat on WHMP lands</b> ((Total Dispersal Habitat/ Total Forestland Habitat) *100)				66.5%	66.4%

<sup>1</sup>Habitat acres were determined using Vegetation Cover Type data on February 20, 2009.

Management Uni	it No.:	17 A	Date:	12-05-08
Observers:	Na	aylor - Taylor		
Description:	Upland De (< 5/acre) Commerci stand appe approxima stand – lot stand rathe (hazel and with occast hiding cove	eciduous (red ald retained. Approx ial Thin. Acres an ears smaller in an ately 6 1/20 acre is of smaller dian er than MS. Und vine maple) and ional tall Oregon	er) clear-cut wi kimately 5.7 acr re based on map rea on ground a cruise plots esta neter trees indic lerstory comprise dominant groun grape. No fora ags largely abse	oximately 5.4 acres of th scattered larger DF es of MS proposed as oped polygons – MS nd will have blished to define the tate it is likely a pole sed of very few shrubs and cover is sword fern ge for deer/elk. Not nt. Stand is adjacent
Invasive Plant Spec		olly (3 plants note		40 in.) DF
Proposed Management :	Impr		age component	ivate property line. of MU through forest
	enfor thin I thin v crown feasik term devel to pro impro	rcement of area o DF (MS stand) b would be greater n spacing. Retain ble. Harvest will and developmen lop conifer cover ovide better secu	ff-road vehicle ut treat as one T than 15" – thin a large diameter provide improv t of understory, along property rity cover for fu	abuse. CC alder, and FHA. Leave trees in a should be based on c DF. Add LWD if ed forage in the short . Long term goal is to boundary (residences)
Wildlife Observation	ons: Acc	cipiter nest noted	d in 2008. No e	lk or deer pellet group

#### 

has no OG habitat and only 9.2 acres Mature habitat (< 2% of Unit). Snags and DF >20" should be retained. Two adjacent mature stands (1.3 and 3.2 acres) do not provide connectivity to other OG or mature stands.

Attach a copy of an aerial photo, map, or schematic of the proposed THA; include roads, disturbances, and/or unique features.

Management U		17 B	Date:	12-05-08
Observers:	1	Naylor - Taylor		
Stand Description:	Deciduou througho road/equa traffic) an use). We boundary average o based on classifies TSHE. T hazel. So	us forest type. Scatt ut stand provide go estrian trail forms y nd a trail heads eas stern boundary also v overlaps shrublan diameter of all tree 5 random 1/20 <sup>th</sup> ac more as a mixed c he shrub portion do	tered large dbh D bod wildlife leave western boundary t through propose b borders shrubla d (4.4 acres) base species in the "sl cre plots in the 4 onifer (96 trees / pes have some de	e trees. Old 7 (lots of trespass ATV ed THA to Yale (ATV nd – the harvest ed on GIS – but the hrubland" area was 18.7"
Invasive Plant Spe Unique Habitat Fe	0	Large dbh ACM	l be treated when A and PSME. R Great opportunition	h broom along shoreling access developed. Relatively flat with gentle es for wildlife leave trees nps (vine maple & hazel)
Proposed Management :	AC shru Har fora exis	ar-cut hardwoods ( MA and PSME per ub retention. Scarif vest will provide e age exists. Develop	r guidelines. Prop y and replant with lk and deer forag snags and LWD cail would be gra	ain large diameter pose several clumps of th PSME and THPL. ge where no grass legume because very little veled – consider trail
Wildlife Observat		eer pellets (few). nrush, winter wren.	See notes from	broadcast survey. Varied
NSO THA Habitat:	does not	contain suitable ha	ıbitat	

### Wildlife/Forestry Evaluation Form

Attach a copy of an aerial photo, map, or schematic of the proposed THA; include roads, disturbances, and/or unique features.

### Wildlife/Forestry Evaluation Form

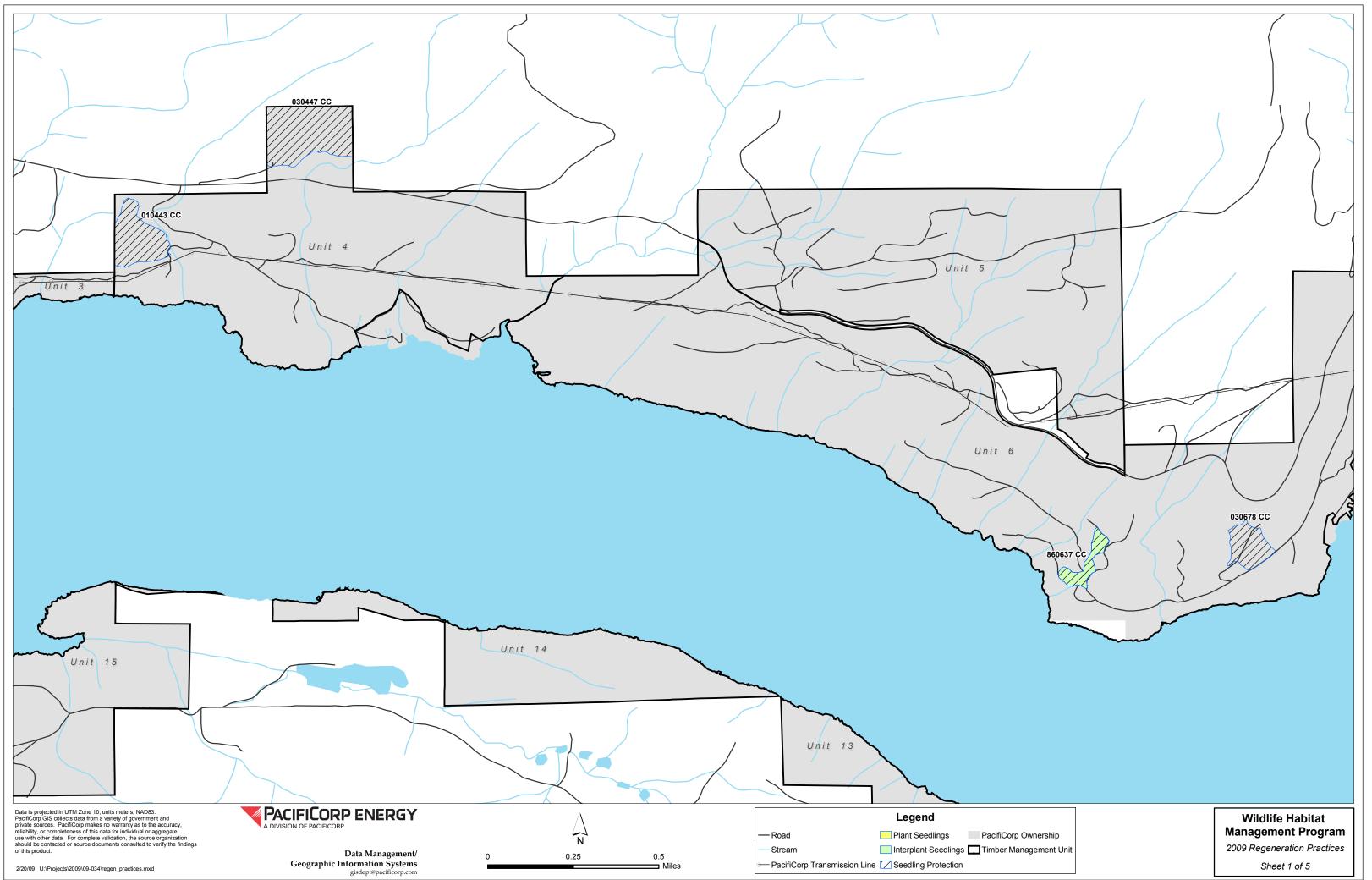
biological desert. Limited arger dbh PSME on edg Understory is entirely sw liversity. GIS indicates N rees 22 inches (PSME) 1 n stocked areas – other a cies: Scotch broom to atures: Very flat area snags (some s Clearcut and establ	f UD and pole stand. Pole stand is a d number of trees per acre within stand but ye and some within proposed THA. yord fern – no shrub development. Low stand MS stand on north end – average diameter of 11-34 dbh range. Perhaps 150 trees per acre areas unstocked. west in meadow area. a – some large dbh PSME. No LWD – few safety issues with snags). Very low diversity.
atures: Very flat area snags (some s Clearcut and establ	a – some large dbh PSME. No LWD – few safety issues with snags). Very low diversity.
snags (some s	safety issues with snags). Very low diversity.
	ish forage with PSME restocking Develop
west is proposed fo shrubs available be with leave trees on enhancements with development in an	here possible. The immediate stand to the or meadow expansion. Maintain the few etween harvest and meadow expansion site that edge as well. Area needs forage adjacent elk use and LWD – snag area with little diversity. Re-establish PSME king of THPL or TSHE.
	ow to west – some pellet groups in adjacent ar or see a bird in here today! Very quiet.
and to north is suitable or snags. No connectivity	(by definition) but there is limited amount of ty to OG stands.
	with some intermix ons: Elk use in mead stand. I didn't he and to north is suitable

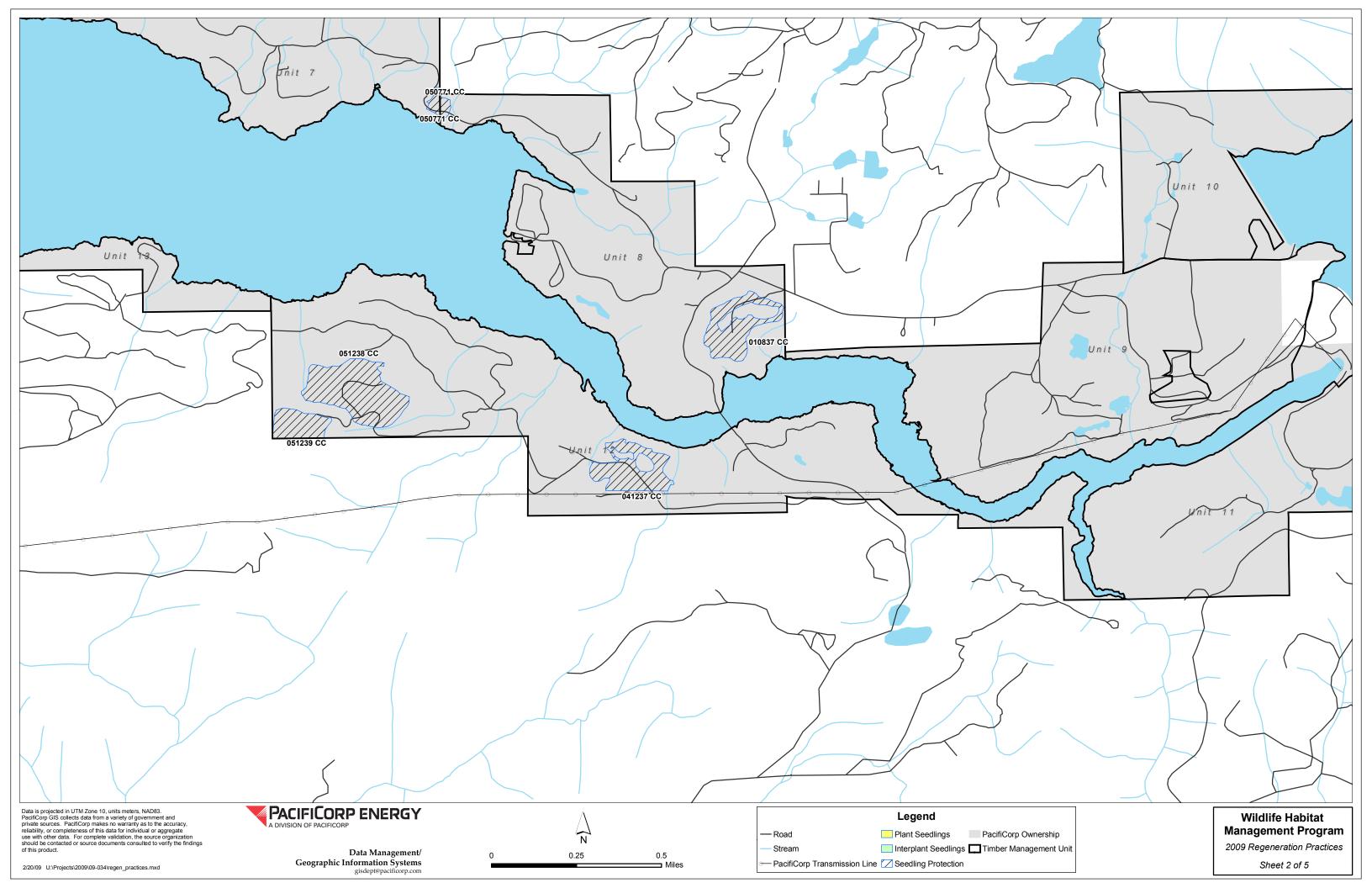
Attach a copy of an aerial photo, map, or schematic of the proposed THA; include roads, disturbances, and/or unique features.

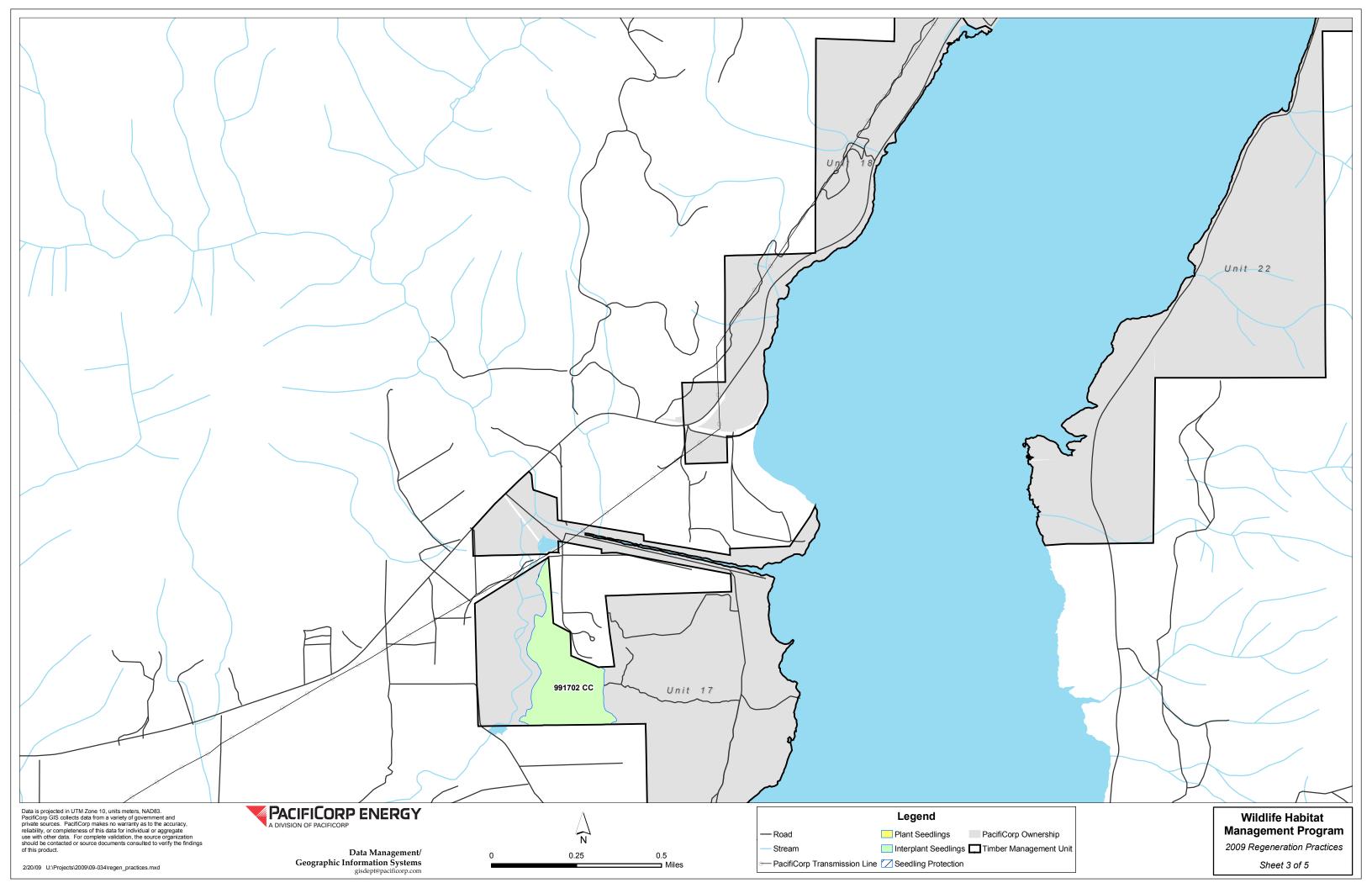
Appendix E: 2010 Proposed Timber Harvest Areas Map

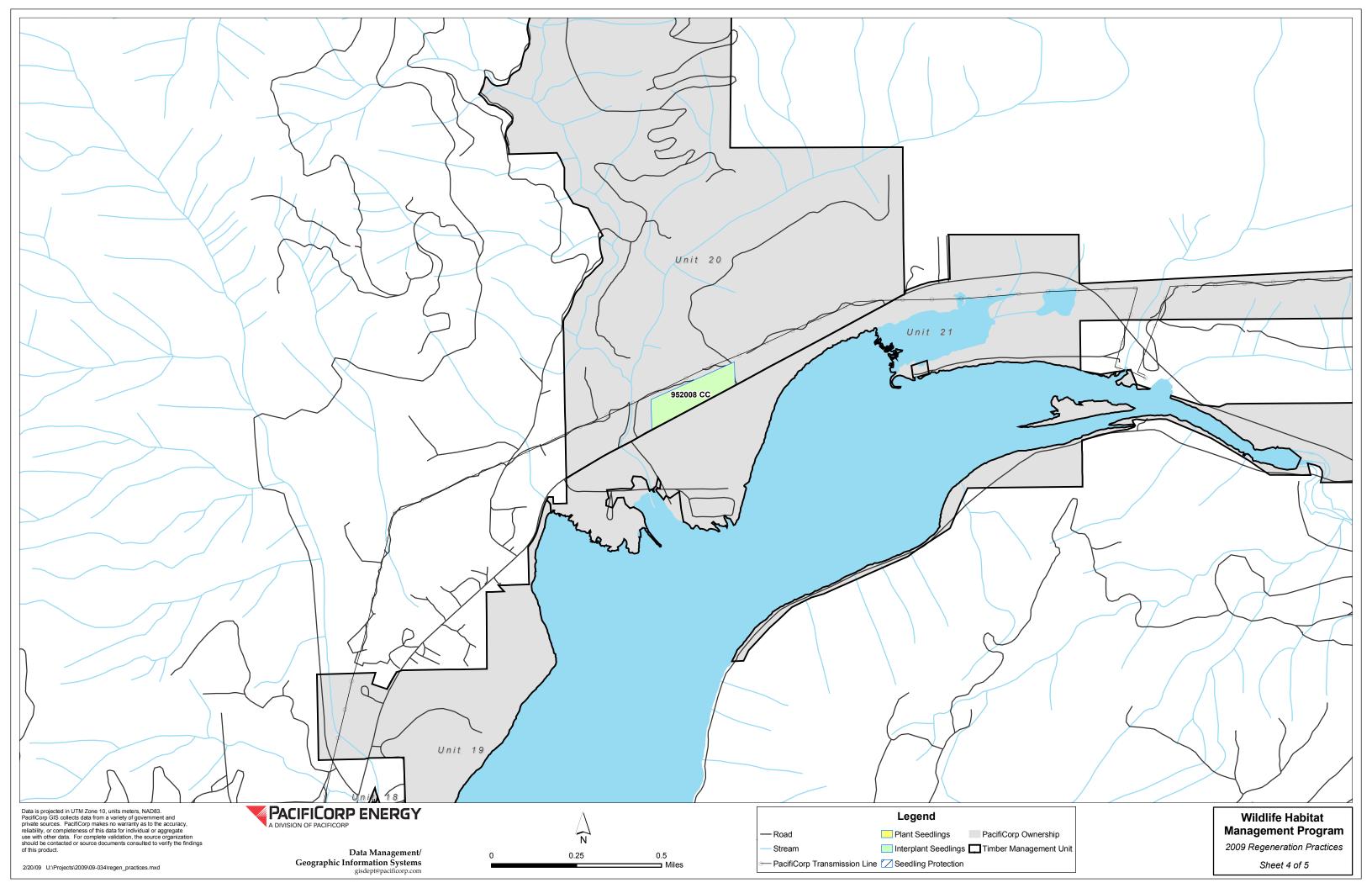


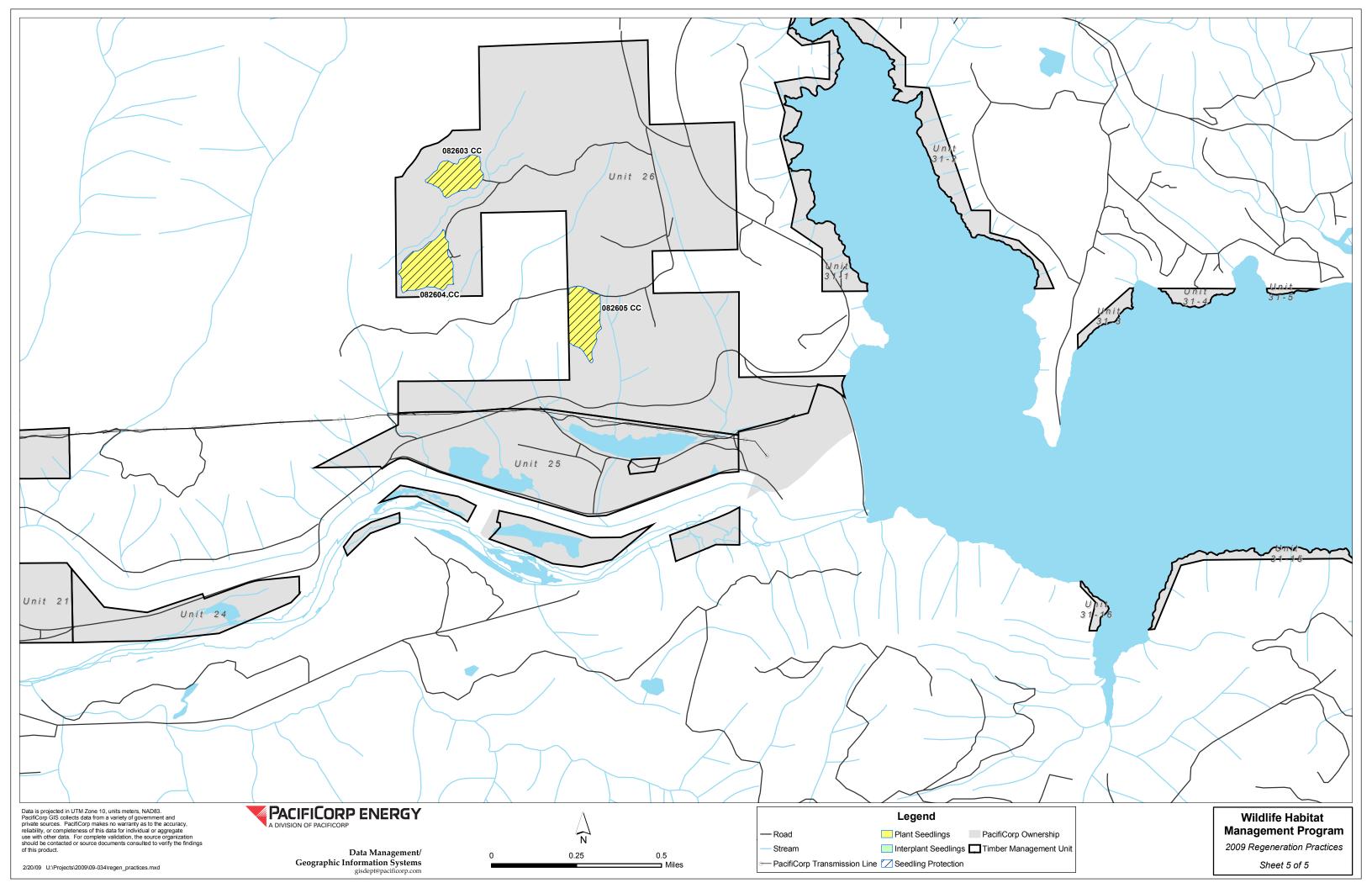
**Appendix F: 2009 Regeneration Practices Maps** 

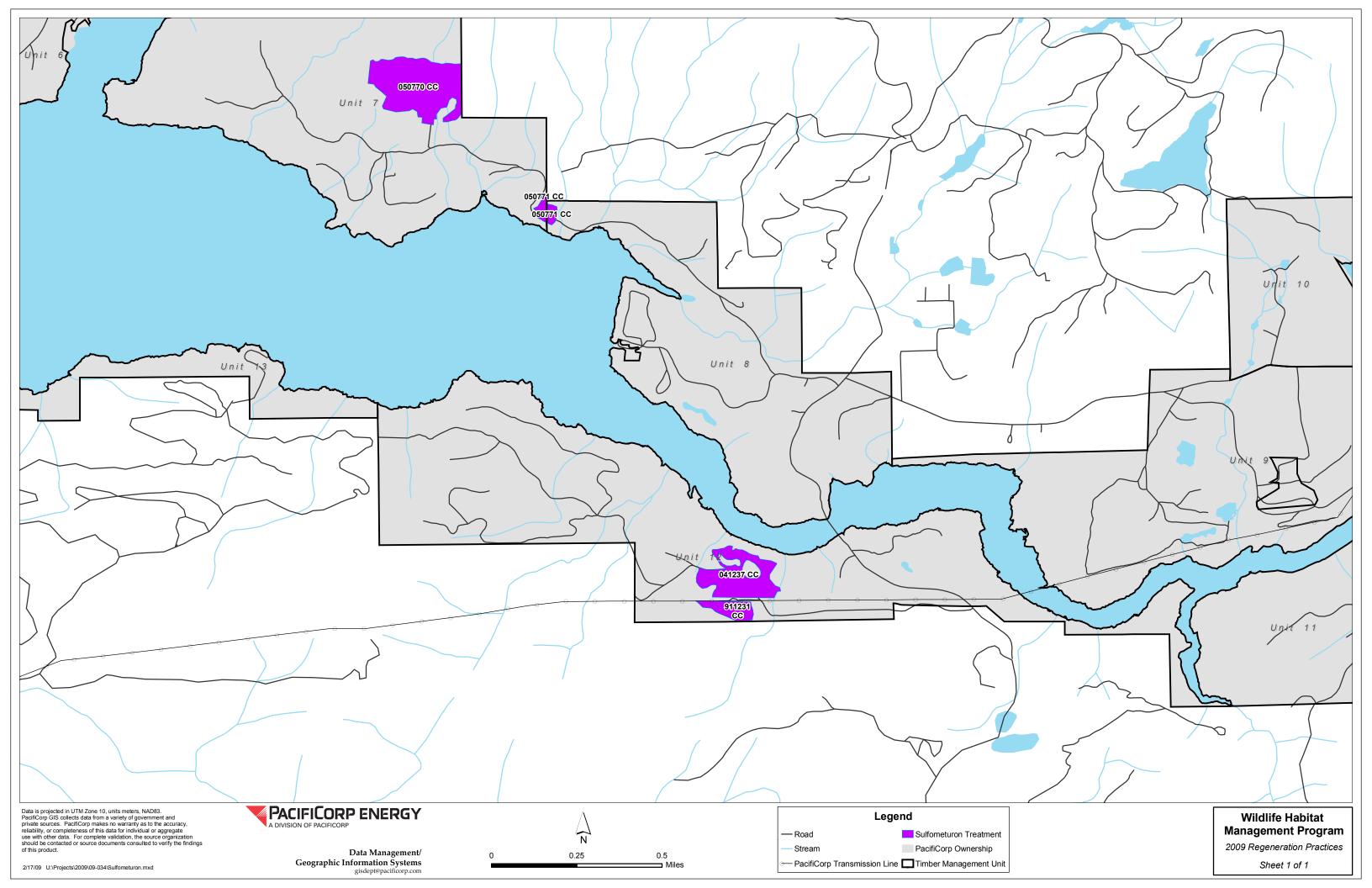


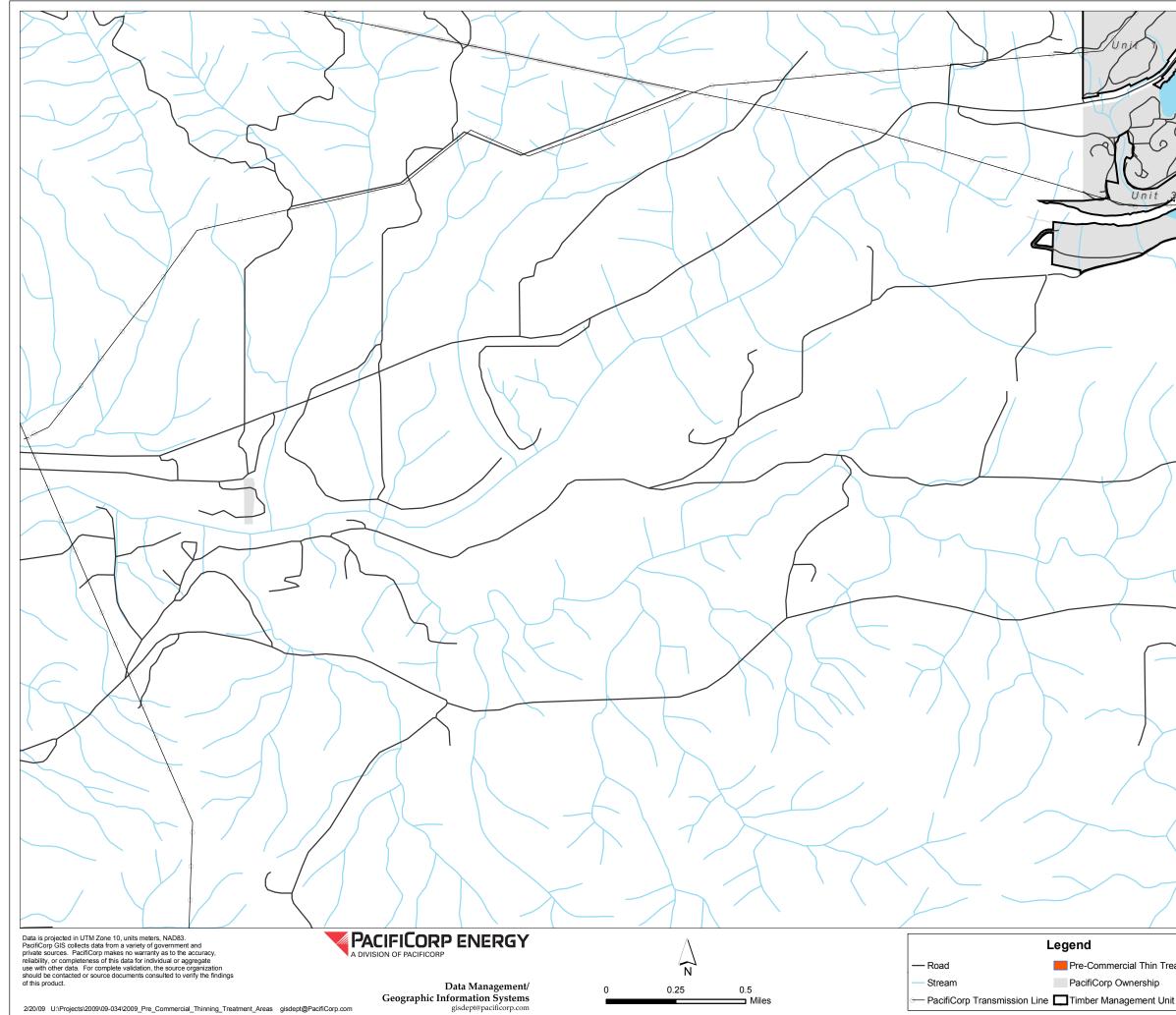








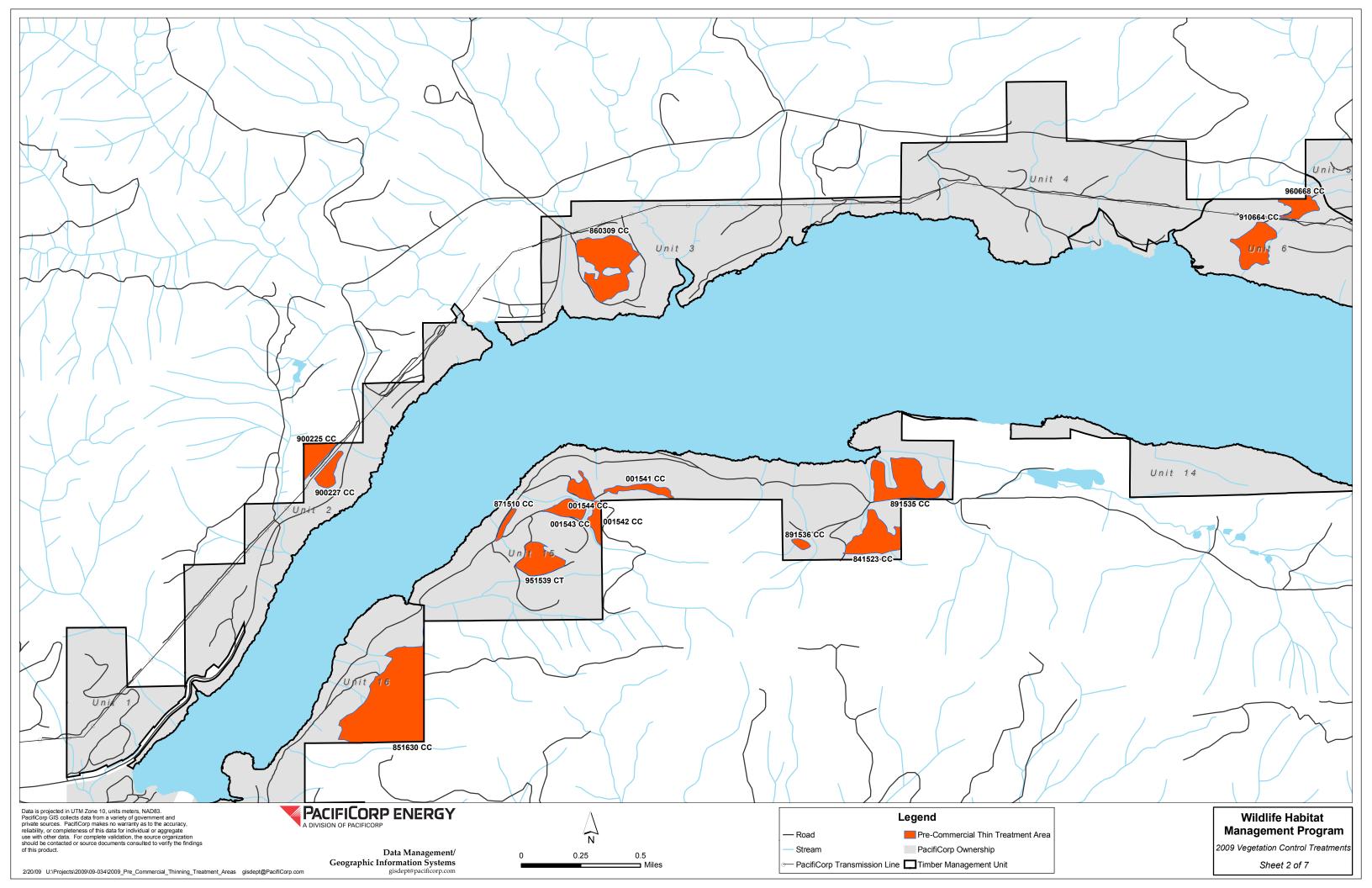


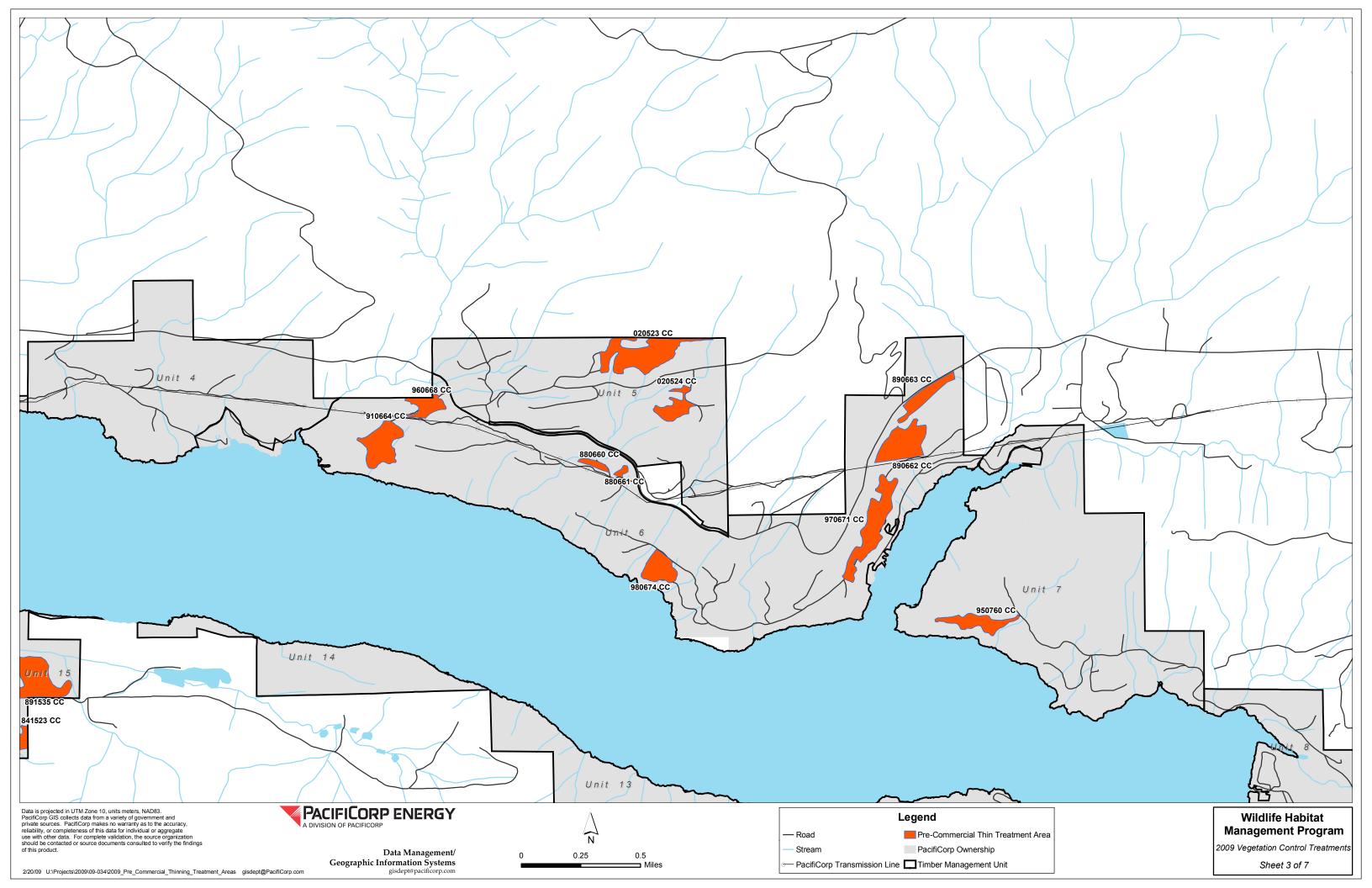


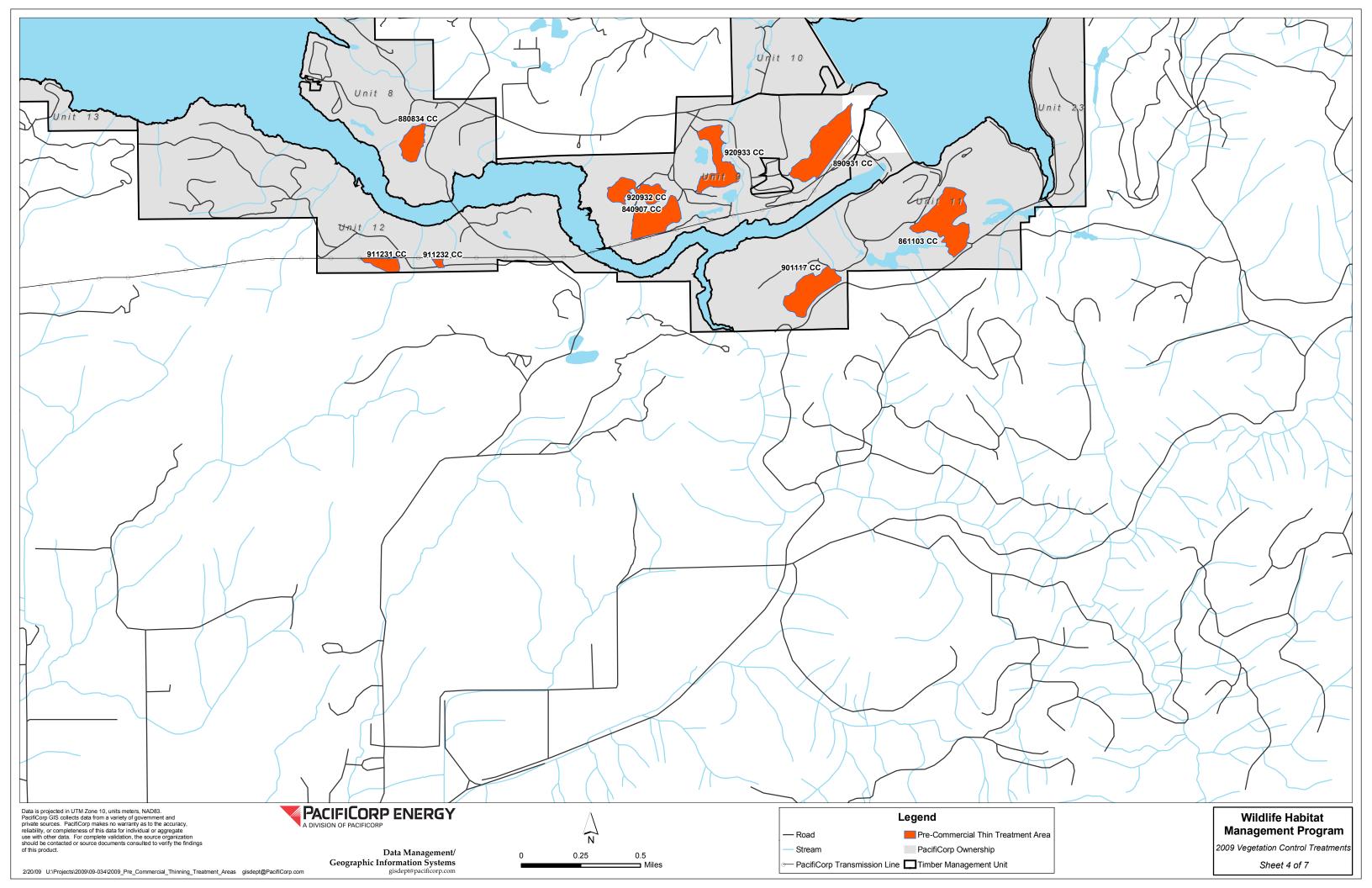
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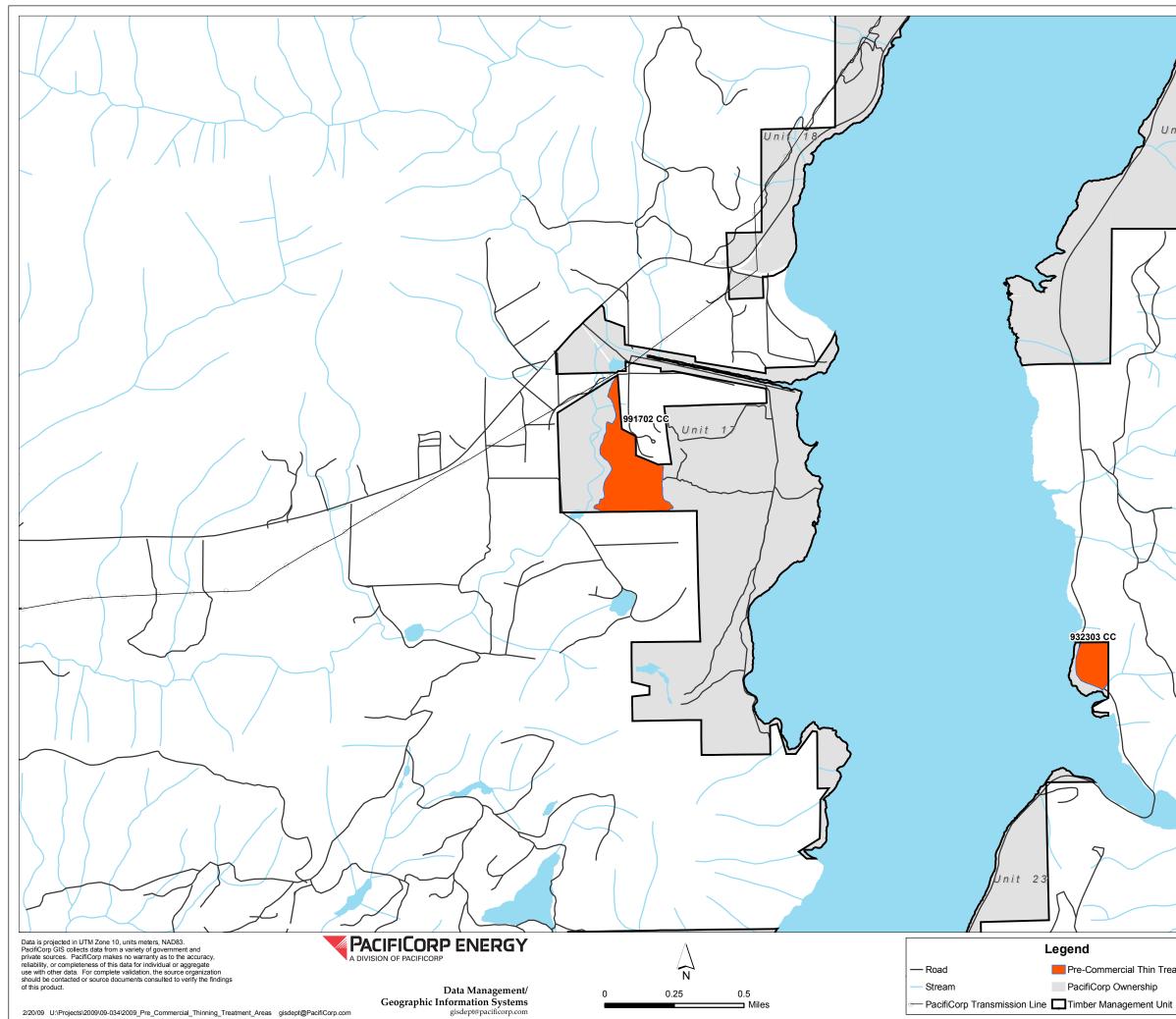
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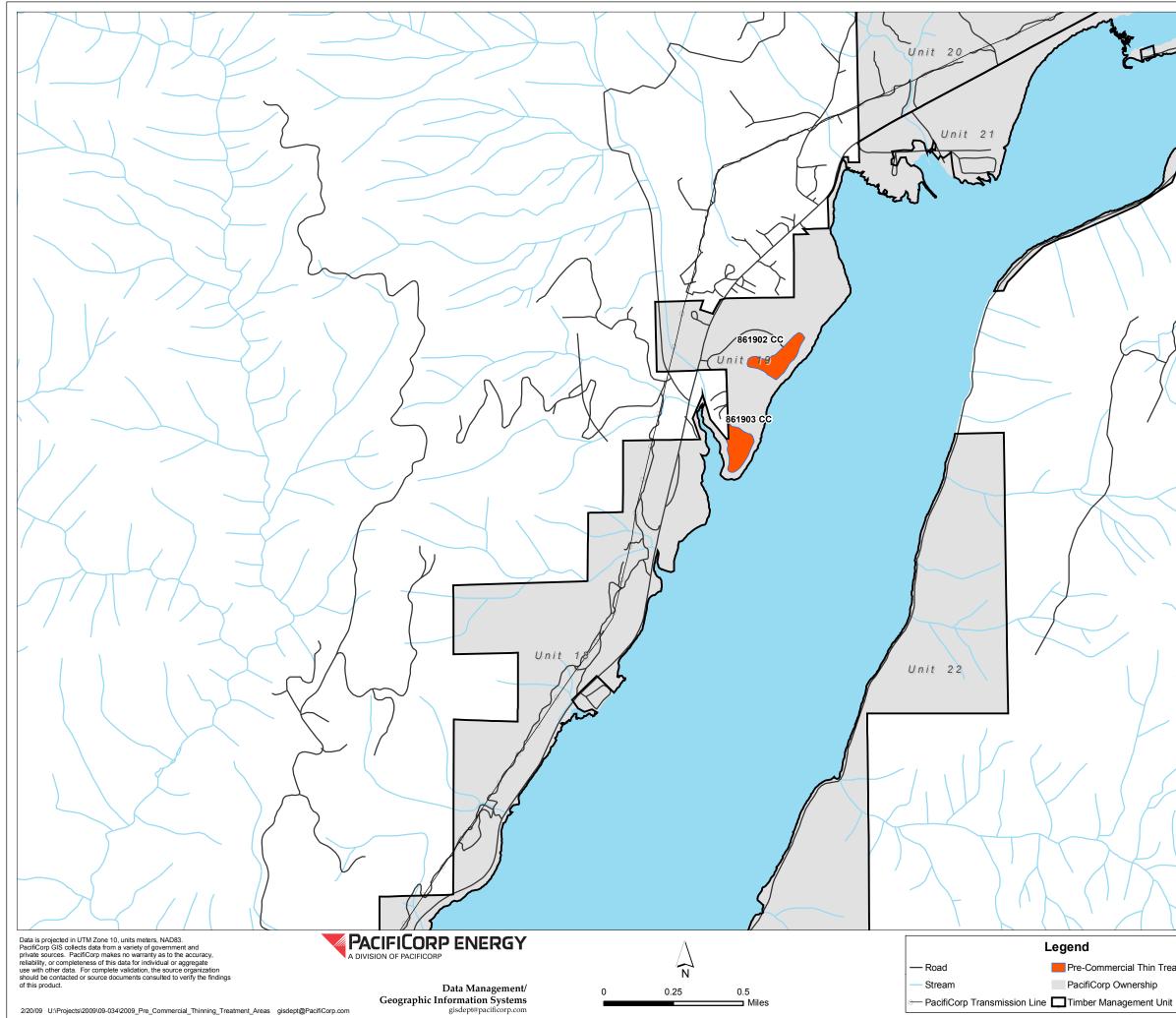




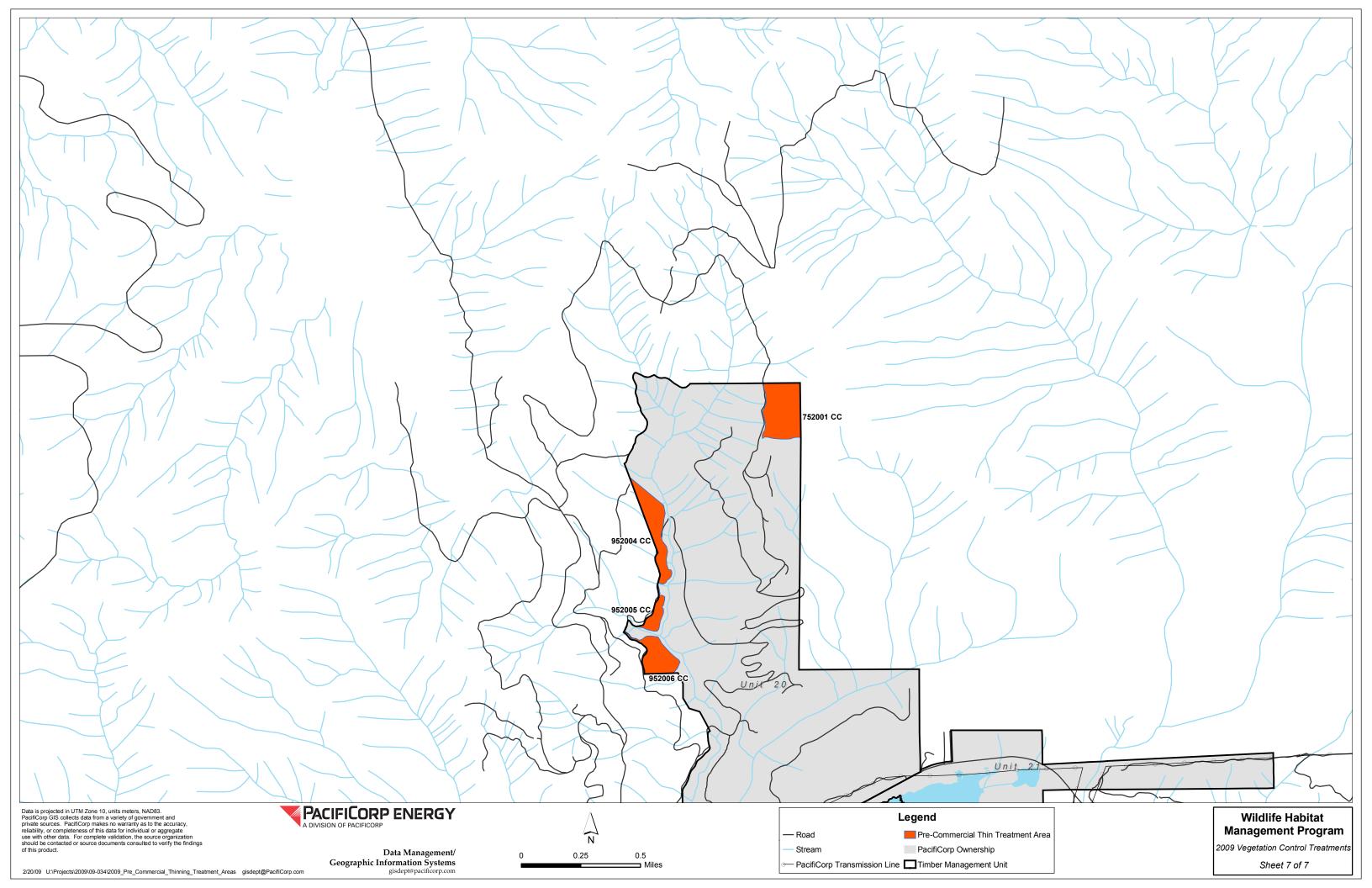




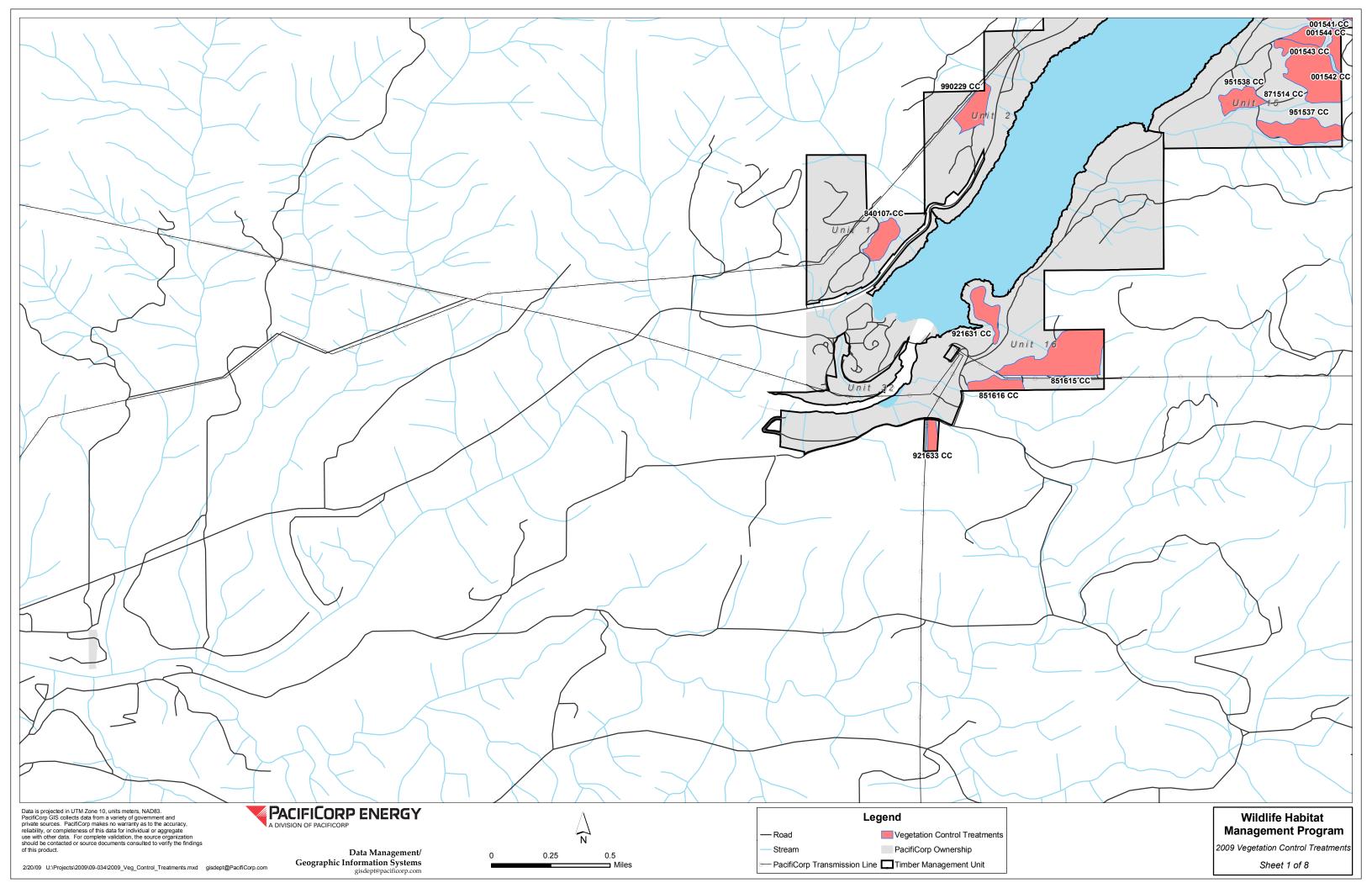
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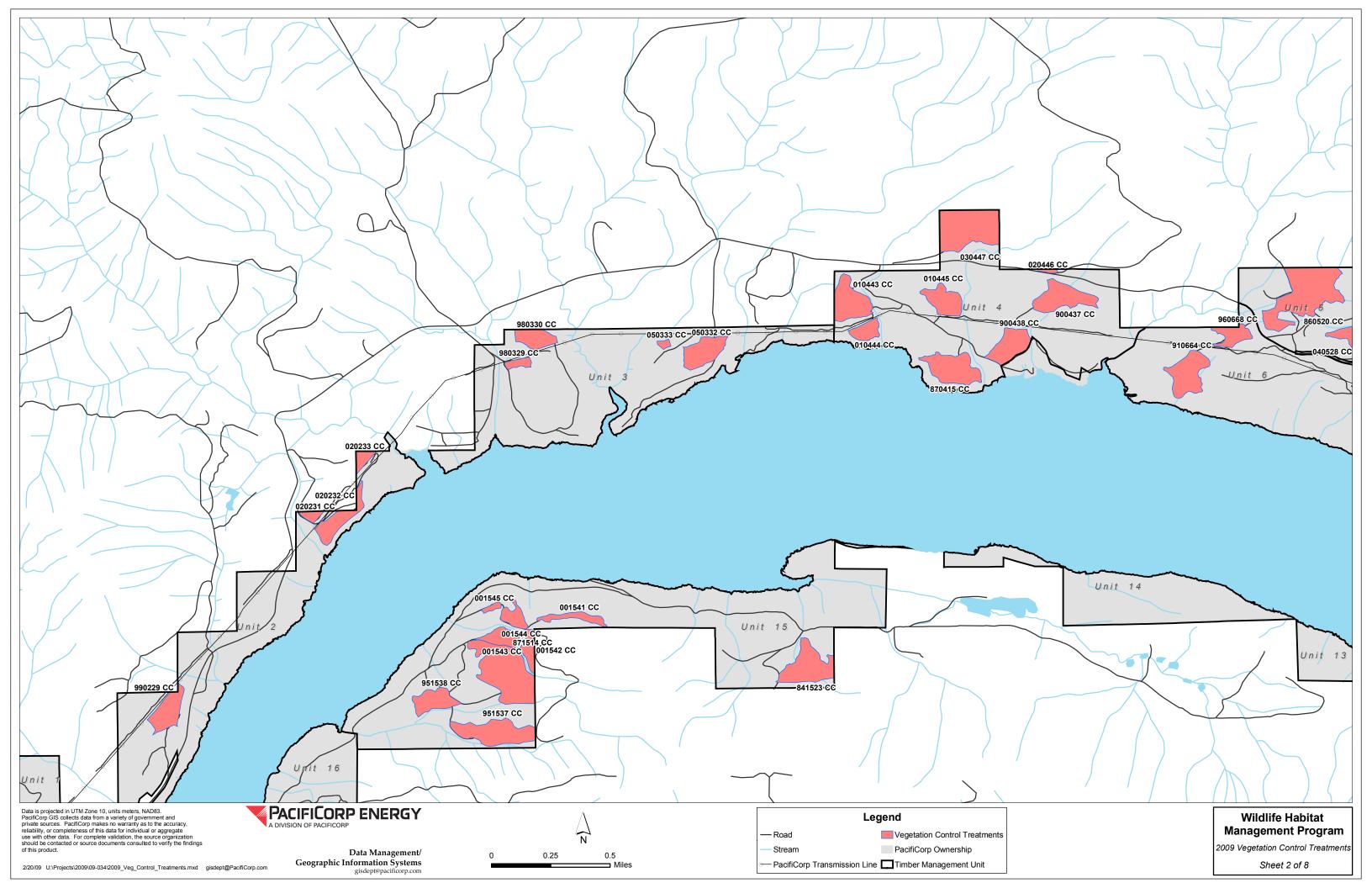


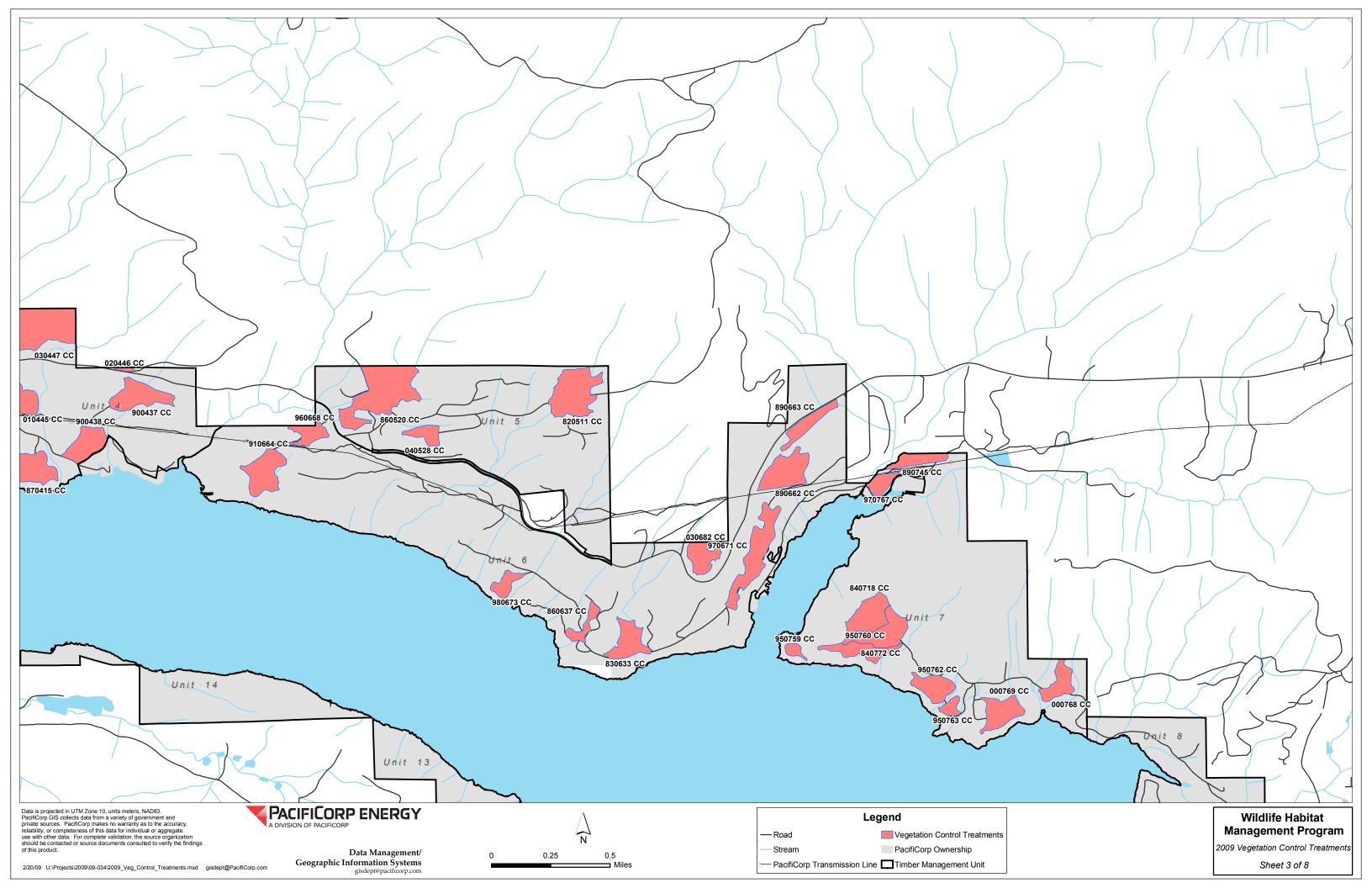
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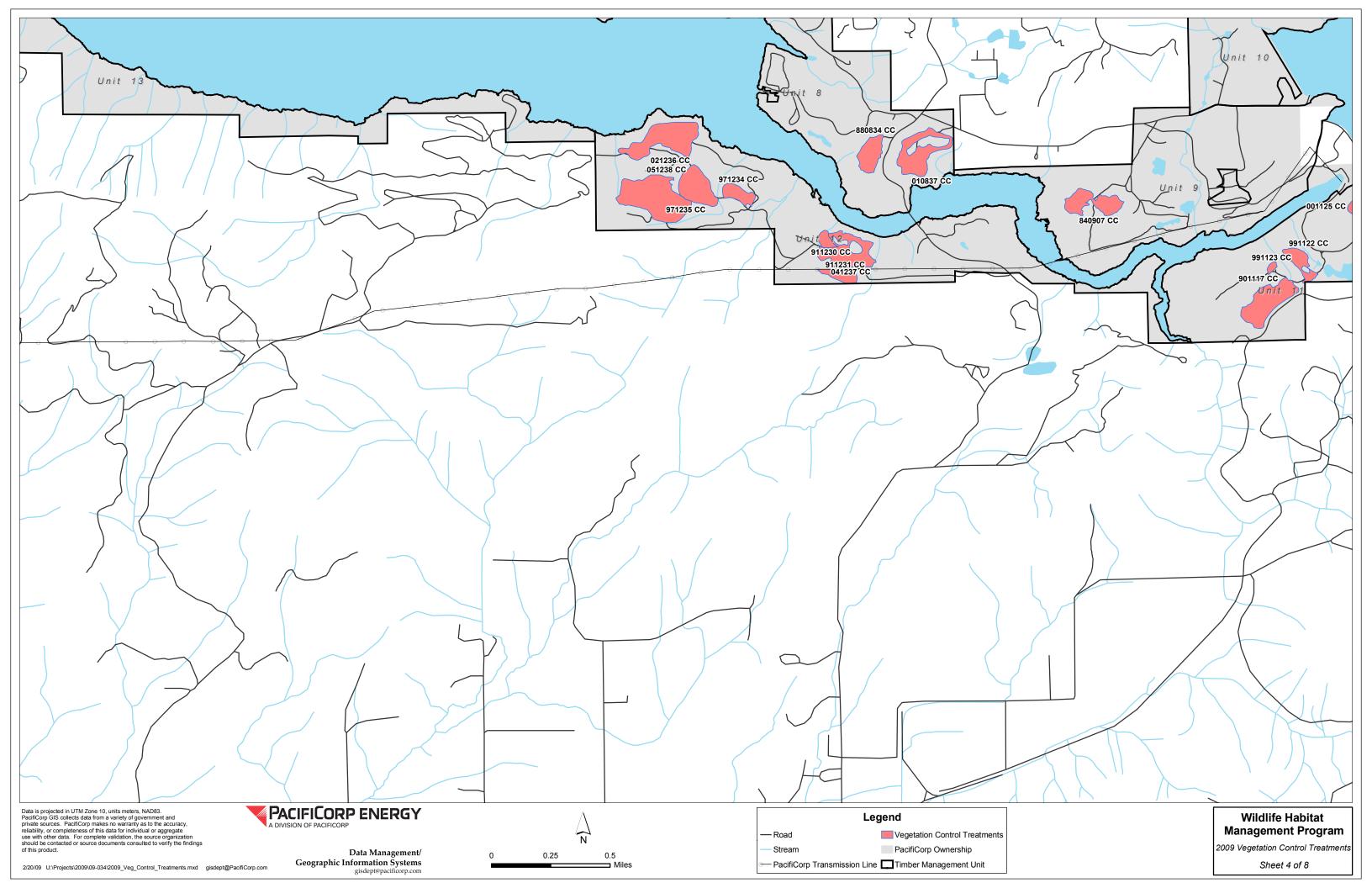


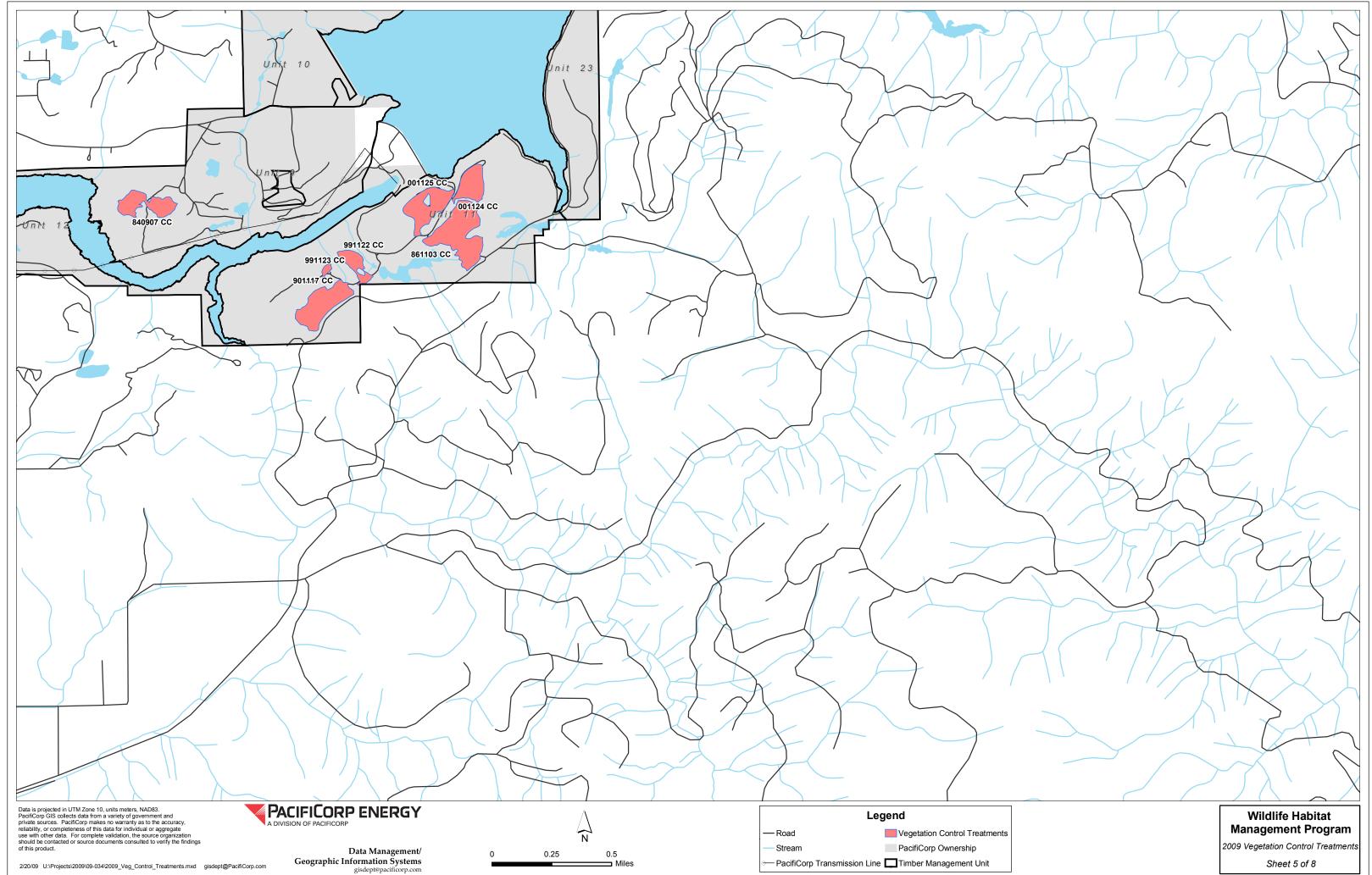
Appendix G: 2009 Vegetation Control Map

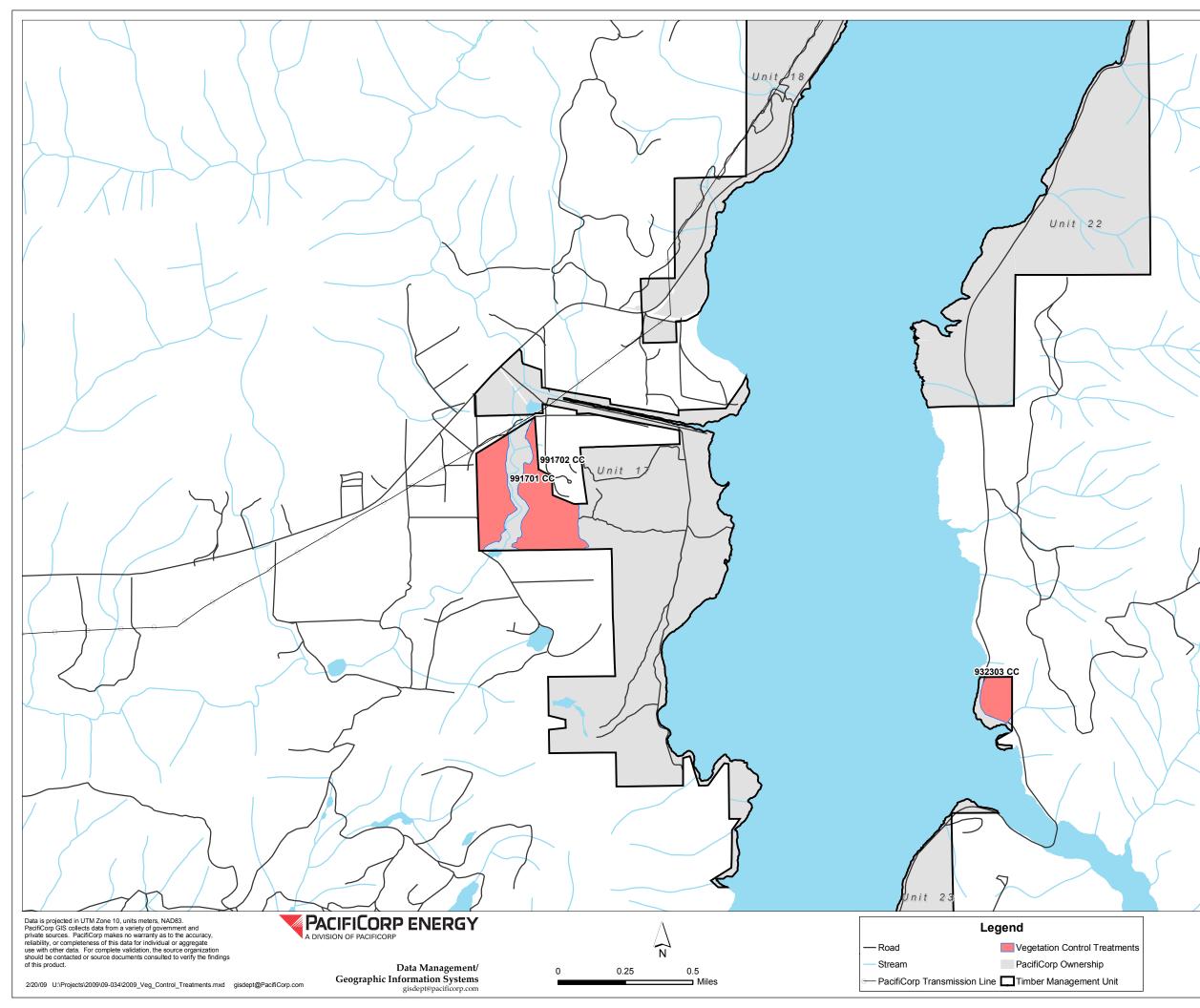








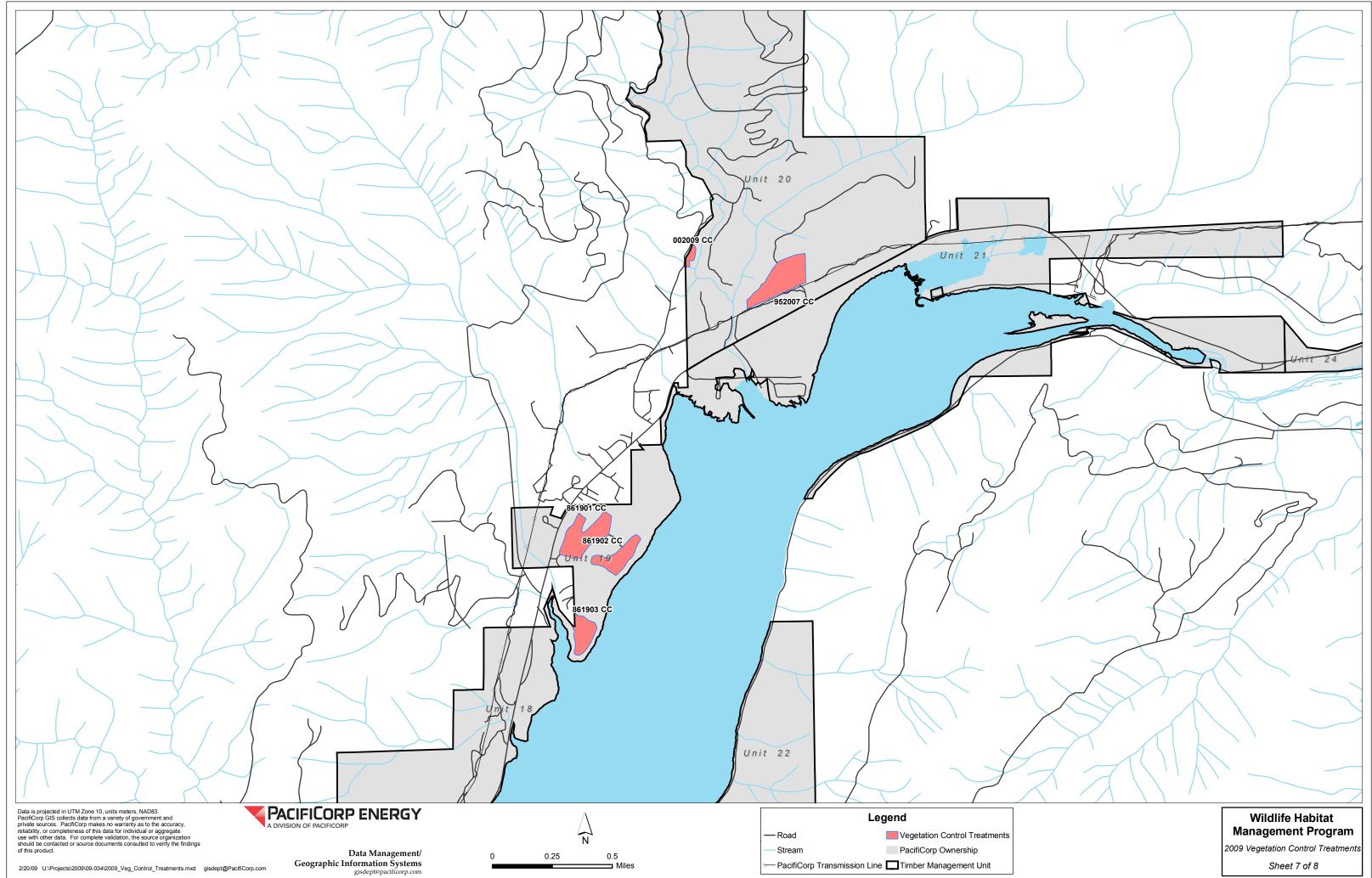


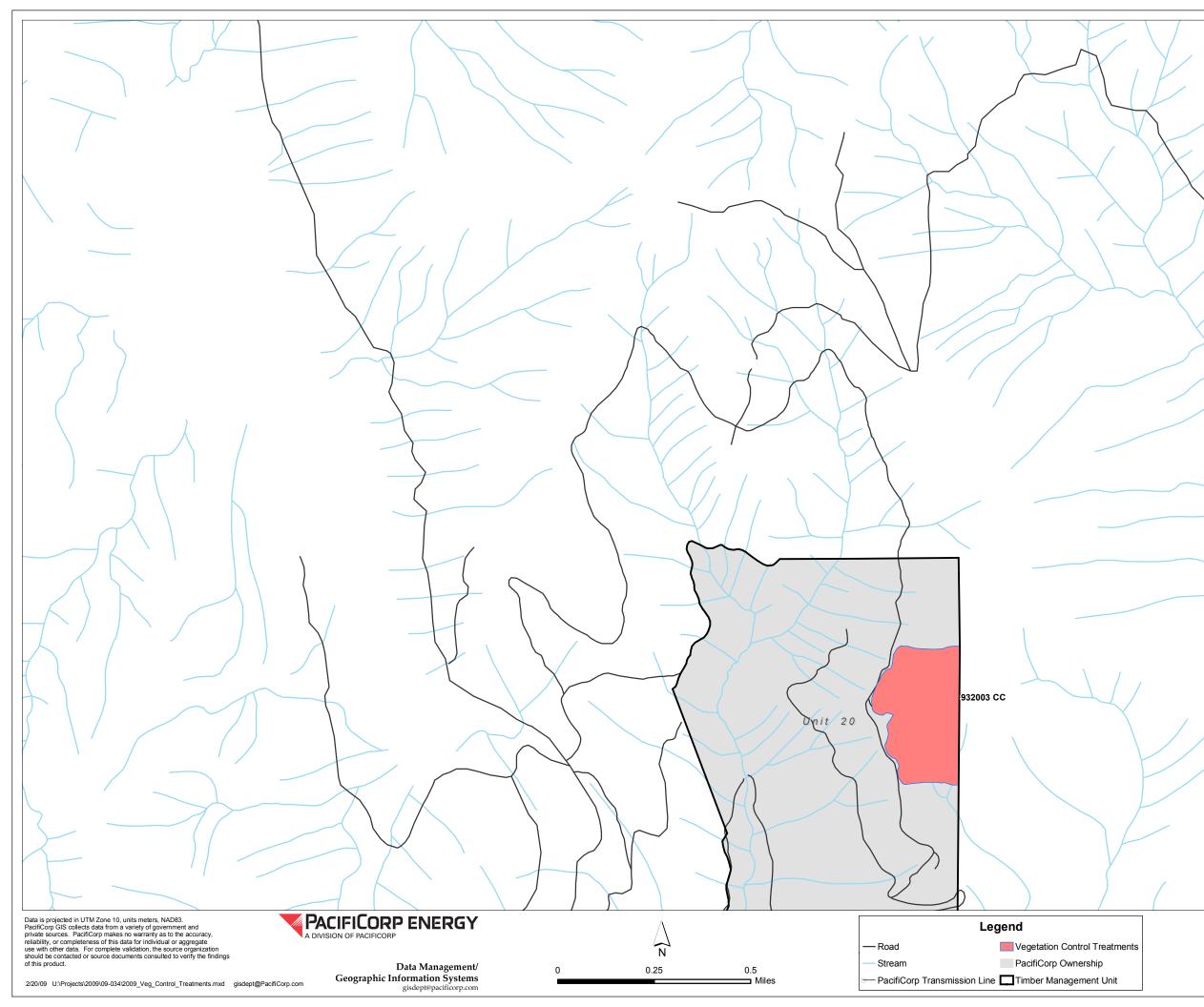


Wildlife Habitat Management Program

2009 Vegetation Control Treatments

Sheet 6 of 8







2009 Vegetation Control Treatments

Sheet 8 of 8

Appendix H: Updated 2009 Washington State and County Noxious Weed list

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

**Class B Weeds:** Non-native species presently limited to portions of the State. Species are **designated** for control in regions where they are not yet widespread. Preventing new infestations in these areas is a high priority. In regions where a Class B species is already abundant, control is decided at the local level, with containment as the primary goal. Please contact your County Noxious Weed Control Coordinator to learn which species are designated in your area.

**Class C Weeds:** Noxious weeds which are already widespread in WA or are of special interest to the state's agricultural industry. The Class C status allows counties to enforce control if locally desired. Other counties may choose to provide education or technical consultation.

### <u>Class A Weeds</u> Eradication is required

Eladioalie	in io i oquii ou
buffalobur	Solanum rostratum
common crupina	Crupina vulgaris
cordgrass, common	Spartina anglica
cordgrass, dense flower	Spartina densiflora
cordgrass, salt meadow	Spartina patens
cordgrass, smooth	Spartina alterniflora
dyers woad	Isatis tinctoria
eggleaf spurge	Euphorbia oblongata
• false brome	Brachypodium sylvaticum
floating primrose-willow	Ludwigia peploides
<ul> <li>flowering rush</li> </ul>	Butomus umbellatus
garlic mustard	Alliaria petiolata
giant hogweed	Heracleum mantegazzianum
goatsrue	Galega officinalis
hawkweed, European	Hieracium sabaudum
hawkweed, yellow devil	Hieracium floribundum
hydrilla	Hydrilla verticillata
johnsongrass	Sorghum halepense
knapweed, bighead	Centaurea macrocephala
knapweed, Vochin	Centaurea nigrescens
kudzu	Pueraria montana var. lobata

meadow clary	Salvia pratensis
purple starthistle	Centaurea calcitrapa
reed sweetgrass	Glyceria maxima
ricefield bulrush	Schoenoplectus mucronatus
sage, clary	Salvia sclarea
sage, Mediterranean	Salvia aethiopis
<ul> <li>shiny geranium</li> </ul>	Geranium lucidum
silverleaf nightshade	Solanum elaeagnifolium
Spanish broom	Spartium junceum
spurge flax	Thymelaea passerina
Syrian bean-caper	Zygophyllum fabago
Texas blueweed	Helianthus ciliaris
thistle, Italian	Carduus pycnocephalus
thistle, milk	Silybum marianum
thistle, slenderflower	Carduus tenuiflorus
variable-leaf milfoil	Myriophyllum heterophyllum
velvetleaf	Abutilon theophrasti
wild four o'clock	Mirabilis nyctaginea

### Class B Weeds

01833	D Weeus
Austrian fieldcress	Rorippa austriaca
blackgrass	Alopecurus myosuroides
blueweed	Echium vulgare
Brazilian elodea	Egeria densa
bugloss, annual	Anchusa arvensis
bugloss, common	Anchusa officinalis
butterfly bush	Buddleja davidii
camelthorn	Alhagi maurorum
common catsear	Hypochaeris radicata
common fennel	Foeniculum vulgare
common reed	Phragmites australis
(nonnative genotypes)	
dalmatian toadflax	<i>Linaria dalmatica</i> ssp.
	dalmatica
Eurasian watermilfoil	Myriophyllum spicatum
fanwort	Cabomba caroliniana
gorse	Ulex europaeus
grass-leaved arrowhead	Sagittaria graminea
hawkweed oxtongue	Picris hieracioides
hawkweed, mouseear	Hieracium pilosella
hawkweed, orange	Hieracium aurantiacum
hawkweed, polar	Hieracium atratum
hawkweed, queen-devil	Hieracium glomeratum
hawkweed, smooth	Hieracium laevigatum
hawkweed, yellow	Hieracium caespitosum

herb-Robert	Geranium robertianum
hoary alyssum	Berteroa incana
houndstongue	Cynoglossum officinale
indigobush	Amorpha fruticosa
knapweed, black	Centaurea nigra
knapweed, brown	Centaurea jacea
knapweed, diffuse	Centaurea diffusa
knapweed, meadow	Centaurea jacea x nigra
knapweed, Russian	Acroptilon repens
knapweed, spotted	Centaurea stoebe
knotweed, Bohemian	Polygonum bohemicum
knotweed, giant	Polygonum sachalinense
knotweed, Himalayan	Polygonum polystachyum
knotweed, Japanese	Polygonum cuspidatum
kochia	Kochia scoparia
lawnweed	Soliva sessilis
lepyrodiclis	Lepyrodiclis holosteoides
longspine sandbur	Cenchrus longispinus
loosestrife, garden	Lysimachia vulgaris
loosestrife, purple	Lythrum salicaria
loosestrife, wand	Lythrum virgatum
oxeye daisy	Leucanthemum vulgare
parrotfeather	Myriophyllum aquaticum
perennial pepperweed	Lepidium latifolium
perennial sowthistle	Sonchus arvensis ssp.
I	arvensis
policeman's helmet	Impatiens glandulifera
poison-hemlock	Conium maculatum
puncturevine	Tribulus terrestris
rush skeletonweed	Chondrilla juncea
saltcedar	Tamarix ramosissima
scotch broom	Cytisus scoparius
spurge laurel	Daphne laureola
spurge, leafy	Euphorbia esula
spurge, myrtle	Euphorbia myrsinites
sulfur cinquefoil	Potentilla recta
swainsonpea	Sphaerophysa salsula
tansy ragwort	Senecio jacobaea
thistle, musk	Carduus nutans
thistle, plumeless	Carduus acanthoides
thistle, Scotch	Onopordum acanthium
water primrose	Ludwigia hexapetala
white bryony	Bryonia alba
wild carrot	Daucus carota
wild chervil	Anthriscus sylvestris

yellow floating heart	Nymphoides peltata
yellow nutsedge	Cyperus esculentus
yellow starthistle	Centaurea solstitialis

<u>Class C Weeds</u>		
absinth wormwood	Artemisia absinthium	
babysbreath	Gypsophila paniculata	
black henbane	Hyoscyamus niger	
cereal rye	Secale cereale	
common groundsel	Senecio vulgaris	
common St. Johnswort	Hypericum perforatum	
common tansy	Tanacetum vulgare	
curly-leaf pondweed	Potamogeton crispus	
English ivy - four	Hedera helix 'Baltica',	
cultivars only	'Pittsburgh', and 'Star'; H.	
	hibernica 'Hibernica'	
<ul> <li>evergreen blackberry</li> </ul>	Rubus laciniatus	
field bindweed	Convolvulus arvensis	
fragrant water lily	Nymphaea odorata	
hairy whitetop	Cardaria pubescens	
hairy willow-herb	Epilobium hirsutum	
hawkweed, common	Hieracium lachenalii	
hawkweeds, nonnative	<i>Hieracium</i> spp.	
and invasive species		
not listed elsewhere		
• Himalayan blackberry	Rubus armeniacus	
hoary cress	Cardaria draba	
jointed goatgrass	Aegilops cylindrica	
old man's beard	Clematis vitalba	
reed canarygrass	Phalaris arundinacea	
scentless mayweed	Matricaria perforata	
smoothseed alfalfa	Cuscuta approximata	
dodder		
spikeweed	Hemizonia pungens	
spiny cocklebur	Xanthium spinosum	
thistle, bull	Cirsium vulgare	
thistle, Canada	Cirsium arvense	
white cockle	<i>Silene latifolia</i> ssp. <i>alba</i>	
yellow archangel	Lamiastrum galeobdolon	
yellow flag iris	Iris pseudacorus	
yellow toadflax	Linaria vulgaris	

• New additions to the 2009 Noxious Weed List

■ Change in Noxious Weed Class

Noxious Weeds are non-native plants introduced to Washington State that can be highly destructive, competitive, and difficult to control. These plants invade our croplands, rangeland, forests, parks, rivers, lakes, wetlands, and estuaries causing both ecological and economical damage that affects us all. Noxious weeds can:

- Lower crop yields
- Reduce forage quality
- Destroy plant and animal habitat
- Displace native plants
- Reduce recreational opportunities (e.g., fishing, hunting, swimming and hiking)
- Clog waterways
- Decrease land values
- Increase erosion and wildfire risk
- And some are toxic to humans and livestock

To help protect the State's resources and economy, the Washington State Noxious Weed Control Board adopts a State Noxious Weed List each year (WAC 16-750). This list classifies weeds into three major classes – A, B, and C – based on the stage of invasion of each species and the seriousness of the threat they pose to Washington State. This classification system is designed to:

- Prevent small infestations from expanding by eradicating them when they are first detected
- Restrict already established weed populations to regions of the state where they occur and prevent their movement to un-infested areas
- Allow flexibility of weed control at the local level for weeds that are already widespread.

To learn more about noxious weeds and noxious weed control in Washington State, please contact:

WA State Noxious Weed Control Board

P.O. Box 42560 Olympia, WA 98504-2560 (360)-725-5764

Email: noxiousweeds@agr.wa.gov

Website: http://www.nwcb.wa.gov

### Or

WA State Department of Agriculture 21 North First Avenue #103 Yakima, WA 98902 (509) 225-2604

### Or

Your local County Noxious Weed Control Board

Please help protect Washington's economy and environment from noxious weeds!

# 2009 Washington State Noxious Weed List



Shiny geranium, *Geranium lucidum*, a new Class A noxious weed

Figure from *Deutschlands Flora in Abbildungen* at <u>http://www.biolib</u> by Johann Georg Sturm in 1796. Image taken from Wikimedia Commons Noxious weeds are non-native and highly invasive plants introduced to Cowlitz County through human actions. Because of their aggressive growth and lack of natural enemies in the county, these species can be highly destructive, competitive or difficult to control. These exotic species can reduce crop yields, displace native plants, destroy animal habitats, damage recreational opportunities, clog waterways, increase soil erosion and fire danger, lower land values and poison humans and livestock.

Because weeds affect everyone, a State Noxious Weed Law was written to benefit the public by coordinating, and when necessary, enforcing weed control in the State. The landowner (whether it is private, state or county lands) is the steward, and under the law, **17.10 RCW**, is responsible for controlling noxious weeds.

To help protect the county's resources, the Cowlitz County Noxious Weed Board adopts a County Noxious Weed List each year. This list categorizes weeds into three major classes — A, B and C — according to the seriousness of the threat they pose to the county.

### **INTEGRATED PEST MANAGEMENT:**

<u>Mechanica</u>: Cutting and destroying flower heads – you may have to cut several times to prevent seed production. Always bag and destroy all plant material (include all roots).

<u>Herbicides and Biological</u>: Please contact your local weed control authority prior to using herbicide or biological material.

<u>Cultural</u>: Pasture management, control graving; replant disturbed soil areas; and practice competitive planting procedures.

To learn more about noxious weeds and weed Control In Washington Contact:

> **Cowlitz County Noxious Weed Control Board** 207 Fourth Ave. North

Kelso, WA 98626 (360) 577-3030 http://www.co.cowlitz.wa.us/noxiousweeds/

> Washington State Noxious Weed Control Board 1111 Washington Street Olympia, WA 98504-2560 (360) 902-2053 Executive Secretary <u>ahalpern@agr.wa.gov</u> (360) 725-5764 Executive Assistant <u>corr@arg.wa.gov</u>

Washington State Department of Agriculture 1111 Washington Street Olympia, WA 98504-2560 (360) 902-1853 State knotweed coordinator (360) 225-2604 Pest Biologist II

> WSU Extension, Cowlitz County 1946 Third Avenue Longview, WA 98632 (360) 577-3014

Help us Protect Our Properties From Noxious Weeds!

## 2009

### Cowlitz County Noxious Weed List



### butterfly bush Buddleja davidii

Illustration by Chris Shields © 2009 The Royal Society for the Protection of Birds

Class A Weeds are non-native species with a limited distribution in Cowlitz County. Preventing new infestations and eradicating existing infestations is the highest priority. Eradication of all Class A plants is required by law.

### Common Name

### Scientific Name

bean-caper, Syrian blueweed, Texas Dbrome, false broom, Spanish buffalobur clary, meadow •cordgrass, smooth cordgrass, salt meadow cordgrass, densflower cordgrass, common crupina, common flax, spurge four o'clock, wild **□**geranium, shiny goatsrue hawkweed, European hawkweed, yellow devil Hieracium floribundum hogweed, giant hydrilla johnsongrass knapweed, bighead knapweed, Vochine kudzu mustard, garlic nightshade, silverleaf primose-willow, floating Ludwigia peploides ricefield bulrush **□**rush, flowering sage, clary sage, Mediterranean spurge, eggleaf starthistle, purple sweetgrass, reed thistle, Italian thistle, milk thistle, slenderflower variable-leaf milfoil

Zygophyllum fabago Helianthus ciliaris Brachypodium sylvaticum Spartium junceum Solanum rostratum Salvia pratensis Spartina alterniflora Spartina patens Spartina densiflora Spartina anglica Crupina vulgaris Thymelaea passerina Mirabilis nyctaginea Geranium lucidum Galega officinalis Hieracium sabaudum Heracleum mantegazzianum Hydrilla verticillata Sorghum halepense Centaurea macrocephala Centaurea nigrescens Pueraria Montana var. lobata Alliaria petiolata Solanum elaeagnifolium Schoenoplectus mucronatus Butomus umbellatus Salvia sclarea Salvia aethiopis Euphorbia oblongata Centaurea calcitrapa Glyceria maxima Carduus pycnocephalus Silybum marianum Carduus tenuiflorus Myriophyllum heterophyllum

### velvetleaf woad, dyers

Abutilon theophrasti Isatis tinctoria

Class B Weeds are non-native species presently limited to portions of the state. Class B species are designated for control in regions where they are not vet widespread. Preventing infestations in these areas is a high priority. In regions where a Class B species is already abundant, control is decided at the county level, with containment as the primary goal.

Common Name Alyssum, hoary blackgrass blueweed bryony, white bugloss, annual bugloss, common bush, Butterfly camelthorn chervil, wild cinquefoil, sulfur common fennel fanwort fieldcress, Austrian floating heart, yellow gorse grass-leaved arrowhead hawkweed, mouseear hawkweed, queendevil hawkweed, polar hawkweed, smooth hawkweed, yellow hedgeparsley helmet, policemen's hemlock, poison indigobush knapweed, black knapweed, brown knapweed, diffuse knapweed, meadow knapweed, Russian knapweed, spotted knotweed, Japanese

Scientific Name Berteroa incana Alopecurus myosuroides Echium vulgare Bryonia alba Anchusa arvensis Anchusa officinalis Buddleja davidii Alhagi maurorum Anthriscus sylvestris Potentilla recta Foeniculum vulgare Cabomba caroliniana Rorippa austriaca Nymphoides peltata Ulex europaeus Sagittaria graminea Hieracium pilosella Hieracium glomeratum Hieracium atratum Hieracium laevigatum Hieracium caespitosum Torillis arvensis Impatiens glandulifera Conium maculatum Amorpha fruticosa Centaurea nigra Centaurea jacea Centaurea diffusa Centaurea jacea x nigra Acroptilon repens Centaurea biebersteinii Polygonum cuspidatum

lawnweed Lepyrodiclis loosestrife, garden loosestrife, purple loosestrife, wand nutsedge, vellow oxtongue, hawkweed pepperweed, perennial primrose, water ragwort, tansy saltcedar sandbur, longspine skeletonweed, rush sowthistle, perennial spurge, laurel spurge, leafy starthistle, yellow swainsonpea thistle, musk thistle, plumeless thistle, Scotch toadflax, Dalmatian watermilfoil, Eurasian

kochia

Kochia scoparia Soliva sessilis Lepyrodiclis holosteoides Lysimachia vulgaris Lythrum salicaria Lythrum virgatum Cyperus esculentus Picris hieracioides Lepidium latifolium Ludwigia hexapetala Senecio jacobaea Tamarix ramosissima Cenchrus longispinus Chondrilla juncea Sonchus arvensis ssp. arvensis Daphne laureola Euphorbia esula Centaurea solstitialis Sphaerophysa salsula Carduus nutans Carduus acanthoides Onopordum acanthium Linaria dalmatica ssp.almatica Myriophyllum spicatum

Class C Weeds are non-native weeds found in Washington. Many of these species are widespread in the state. Long-term programs of suppression and control are a local option, depending upon local threats and the feasibility of control in local areas. See Washington State Noxious Weed List for a more extensive Class C list.

#### Common Name

Archangel, yellow ■blackberry, evergreen Dblackberry, Himalayan hawkweeds, non-native Iris, yellow flag St. Johnswort, Common tansy, Common thistle, bull thistle, Canada toadflax, yellow

### Scientific Name

Lamiastrum galeobdolon Rubus laciniatus Rubus armeniacus Hieracium spp. Iris pseudacorus Hypericum perforatum Tanacetum vulgare Cirsium vulgare Cirsium arvense Linaria vulgaris

New additions to the 2008 Noxious Weed List