

United States Government

Department of Energy
Bonneville Power Administration

memorandum

DATE: March 24, 2003

REPLY TO
ATTN OF: KEP/4

SUBJECT: Supplement Analysis for the Transmission System Vegetation Management Program FEIS
(DOE/EIS-0285/SA-134-Bandon-Rogue-GoldBeach)

TO: Ben Tilley
Natural Resource Specialist – TFE/Alvey

Proposed Action: Vegetation Management for the Bandon-Rogue-Gold Beach transmission line corridor. This corridor includes the Bandon-Rogue #1 115 kV transmission line from Bandon Substation to Rogue Substation and the Rogue-Gold Beach #1 and #2 115kV transmission lines, starting at Rogue Substation and ending at Gold Beach Substation. In addition the project includes adjacent portions of the Fairview-Rogue #1 230 kV Transmission Line.

Location: The project is located in the BPA Eugene Region, Coos and Curry Counties, Oregon.

Proposed by: Bonneville Power Administration (BPA).

Description of the Proposal: BPA proposes to remove unwanted vegetation along the right-of-way, access roads, switch platforms, and around tower structures of the subject transmission line corridor that may impede the operation and maintenance of the identified transmission lines. BPA plans to conduct vegetation control with the goal of removing tall growing vegetation that is currently or will soon be a hazard to the transmission line. BPA's overall goal is to have low-growing plant communities along the rights-of-way to control the development of potentially threatening vegetation.

Analysis: Please see the attached checklist for the resources present. Applicable findings and mitigation measures are discussed below.

Planning Steps:

1. Identify facility and the vegetation management need.

Work will take place along the Bandon-Rogue-Gold Beach transmission line rights-of-way for "on" right-of-way control (including ROW clearing, danger trees, switch platform, and structure clearings) and access road clearing of noxious weeds and tall growing species. The proposed treatment will be performed in designated areas along the ROW's with an easement width ranging from 100 feet to 225 feet. See attached checklist and documents for exact locations of treatment within the corridor.

2. Identify surrounding land use and landowners/managers and any mitigation.

The project corridor passes through rural, residential, urban, agricultural, grazing lands, industrial forestlands, Humbug Mountain State Park, and the BLM Coos District. Landowners requiring notification or under tree and brush agreements are shown in Section 2.4 of the attached checklist. Any remaining landowners will be contacted (letters, personal contact, door hangers, etc.) by BPA before and during the project. Letters that are returned will have a personal visit to the new landowner. Any input received will be incorporated into the prescription/cut sheets.

3. Identify natural resources and any mitigation.

Section 3 of the attached checklist identifies the natural resources present in the area of the proposed work. The following resources found along with applicable mitigation measures:

Riparian Habitat:

Riparian habitat includes rivers, wetlands, streams, and creeks meeting the definition of riparian habitat. Many areas were identified for this project. Site specific requirements for work around these resources, including buffers are contained in Section 3.1 of the attached checklist.

Irrigation sources, Wells, and Springs:

Several locations were identified in the project area. Site-specific requirements for working around these resources, including no herbicide applications, are contained in Section 3.2 of the attached checklist.

Threatened and Endangered Species/Essential Fish Habitat (EFH):

Western Lily, Brown Pelican, and anadromous fish were identified in the project area. A variety of conservation or avoidance measures were implemented to maintain a “no effect” determination on listed species and EFH. Measures include buffers from water resources, vegetation management techniques, timing of entry to critical areas, etc. For a complete listing see Section 3.3 in the attached checklist.

Visually Sensitive Areas:

Several areas were identified where the project crosses several sensitive areas. Vegetation management methods and mitigation measures were specifically developed for each area. The measures are summarized in Section 3.5 of the attached checklist.

Cultural Resources:

No known cultural resources are present through out the project area. The project does not include any ground disturbance areas. In the event that project activities unearth or discover any cultural/historic or prehistoric materials, work will cease immediately; and will not resume until a professional archaeologist has evaluated the site.

4. *Determine vegetation control and debris disposal methods.*

Herbicide application will be for spot/stump treatment of re-sprouting species and conducted using backpack sprayers containing 25% Garlon 4 and 75% web oil mix. Follow herbicide treatment will utilize a 1 to 2 percent Garlon 4, 5 percent crop oil, and a 93 to 94 percent water mix. Mechanical removal of vegetation will be accomplished using various methods with debris being scattered to prevent increased fire hazards. Chipping, lop and scatter, and mulching are the three methods that will be used for debris disposal (see Section 4 and 5).

5. *Determine revegetation methods, if necessary.*

Re-vegetation is not necessary for this project. Reseeding will occur naturally in any areas that are lightly disturbed. In mowing areas, the mowers will cut slightly above grade. This prevents erosion and stimulates native grass.

6. *Determine monitoring needs.*

Monitoring will occur in the form of inspection while work is being done in the area. When convenient, subsequent monitoring will occur by the Natural Resource Specialist and TLM crew. Helicopter patrols (4 times/year) and working patrols (yearly) will also keep the NRS updated on problem areas.

Erosion potential will be monitored during each inspection. Growth rate and return of species along tower sites and access roads will be monitored to predict accessibility in the foreseeable future.

7. Prepare appropriate environmental documentation.

Findings: This Supplement Analysis finds that 1) the proposed actions are substantially consistent with the Transmission System Vegetation Management Program FEIS (DOE/EIS-0285) and ROD, and; 2) there are no new circumstances or information relevant to environmental concerns and bearing on the proposed actions or their impacts. Therefore, no further NEPA documentation is required.

/s/ Brett M. Sherer

Brett M. Sherer – KEP/4
Environmental Engineer

CONCUR: /s/ Thomas C. McKinney
Thomas C. McKinney
NEPA Compliance Officer

DATE: 03/24/2003

Attachment

cc:

L. Croff – KEC-4
T. McKinney – KEC-4
C. Leiter – KEP-4
J. Meyer – KEP-4
S. Barndt – KEPR-4
P. Key – LC-7
D. Hollen – TF/DOB-1
T. Jones – TFE/Alvey
M. Newbill – TFE/Chemawa
T. Cupp – TFEP/North Bend
Environmental File – KEC
Official File – KEP-4 (EQ-14)

Vegetation Management Checklist

Prepared by:
Benjamin Tilley
Natural Resource Specialist
TFE/Alvey

1. IDENTIFY FACILITY AND THE VEGETATION MANAGEMENT NEED

Describe Right-of-way.

See Handbook — [List of Right-of-way Components](#) for checkboxes and the requirements for the components [Rights-of-way](#), [Access Roads](#), [Switch Platforms](#), [Danger Trees](#), and [Microwave Beam paths](#).

Corridor Name	Corridor Length & kV	Easement width	Miles of Treatment
Bandon-Rogue #1	46 miles 115 kV	100' – 125'	46 miles (Bandon Sub to Rogue Sub)
Fairview-Rogue #1	65 miles 230 kV	112.5' – 150'	43 miles (22\1 to Rogue Sub)
Rogue-Gold Beach #1 & #2	6 miles 115 kV (both lines)	225'	6 miles (Rogue Sub to Gold Beach Sub)

Right Of Way:

Right-of-Way – clearing in right-of-way

Transmission Structures – clearing around

Access Road clearing - approximate miles – 30 miles (90 acres)

Switch Platforms

Danger Tree clearing

1.2 Describe the vegetation needing management.

See handbook — [List of Vegetation Types](#), [Density](#), [Noxious Weeds](#) for checkboxes and requirements. Vegetation Types:

Douglas Fir, True Firs

Hemlock

Spruce

Alder, Maple

Mrytlewood (California Laurel)

Cedar

Madrone

Wild Cherry

Ash

Noxious Weeds - scotch broom, gorse, tansy, Himalayan blackberry and thistle (various spp.)

Density: Medium (50 – 250 stems/per acre)

1.3 List measures you will take to help promote low-growing plant communities. If promoting low-growing plants is not appropriate for this project, explain why. See Handbook — for requirements and checkboxes.

Tall-growing vegetation that is currently or will soon be a hazard to the line will be removed. (In places where tall growing vegetation must be left in place, it may not be possible to promote low-growing plants.)

Cut-stump or follow-up herbicide treatments on resprouting-type species will be carried out to ensure that the roots are killed.

Vegetation that will grow tall will be selectively eliminated *before* it reaches a height or density to begin competing with low-growing species.

Desirable low-growing plants will not be disturbed. Only selective vegetation control methods that have little potential to harm non-target vegetation will be used.

1.4 Describe overall management scheme/schedule.

See Handbook - [Overall Management Scheme/Schedule](#).

Initial entry – Initial entry will entail the activities described above (Promoting LGPC).

Subsequent entries – – The line will be cut in such a way that there should be no concerns of tall-growing species under the lines for the duration of the 4-year cycle. A follow-up herbicide treatment will occur 6 – 12 months following the initial entry to eliminate resprouting noxious weeds and tall-growing species along access roads and tower sites.

Future cycles - This line is on a 4-year cycle due to its location on the south Oregon Coast. After completion of this cutting cycle, there is the potential to increase this cycle by another year (5-year cycle), depending on the growth vigor of trees surrounding the line.

2. IDENTIFY SURROUNDING LAND USE AND LANDOWNERS/MANAGERS

2.1 List the types of landowners and land uses along your corridor.

See Handbook — [Landowners/Managers/Uses](#) for requirements, and [List of Landowners/Managers/Uses](#) for a checkbox list.

Landowners/Managers/Uses:

Rural

Urban

Residential

Agricultural

Grazing lands

Industrial Forest lands

State/City/County Lands: Humbug Mountain State Park

BLM: Coos District

Counties: Coos, Curry

2.2 Describe method for notifying right-of-way landowners and requesting information (i.e., doorhanger, letter, phone call, e-mail, and/or meeting). Develop landowner mail list, if appropriate.

See Handbook — [Methods for Notification and Requesting Information](#) for requirements.

Form letters will be sent out to all known landowners of the right-of-way. These letters will be sent out 3 weeks prior to the job starting. This allows time for sufficient response of landowner's in case there is any overriding concerns, comments, or restrictions that may apply. Any letters that are returned will have a personal visit to the new landowner.

2.3 List the specific land owner/land use measures — determined from the handbook or through your consultations with the entities — that will be applied.

See handbook — [Requirements and Guidance for Various Landowners/Uses](#) for requirements and guidance, also [Residential/Commercial](#), [Agricultural](#), [Tribal Reservations](#), [FS-managed lands](#), [BLM –managed lands](#), [Other federal lands](#), [State/ Local Lands](#).

Span		Landowner/use	Specific measures to be applied
To	From		
23\4 + 1175'	23\4 + 1360'	Private Landowner—Animal shelters and fence.	Do not disturb infrastructure. No herbicides near the animals.
26\2 + 400'	26\3 + 730'	Private Landowner—Christmas tree farm	Do not cut merchantable X-mas trees.
26\5 + 375'	26\6 + 860'	Private Landowner—Christmas tree farm	Do not cut merchantable X-mas trees.
27\3 + 784'	27\5 + 475'	Private Landowner—Christmas tree farm	Do not cut merchantable X-mas trees.
42\3 + 555'	42\4 + 367'	Private Landowner— Christmas/Ornamental/ Orchard trees	Consult w/ landowner before any vegetation management takes place.
51\1 + 934'	51\3 + 1055'	Humbug Mountain State Park	No herbicides to be applied. All debris will be chipped and removed. Visually sensitive areas will be maintained.
52\2 + 640'	52\3 + 956'	BLM (Coos) Land	No herbicides to be applied.
		Baja Humbug Oregon, LTD.	No vegetation control or spraying on access roads: B-GB-AR-15, 32-1, 32-3, 32-4(parcel 1&3), 32-5(parcel 2&3)
54\4 + 696'	54\4 + 1007'	Residential water supply	No herbicides in this area.
56\4 + 775'	56\5 + 2235'	Private Landowner—Christmas tree farm	Do not cut merchantable X-mas trees.

2.4 Review any existing landowner agreements (e.g. tree/brush Permits or Agreements). List in table above any provisions that need to be followed and where they are located.

See handbook — [Landowner Agreements](#) for requirements.

Refer to table above.

2.5 List any known casual informal use of the right-of-way by non-owner publics. List any constraints or measure's to take due to the informal use.

See handbook — [Casual Informal Use of Right-of-way](#) for requirements.

Refer to table above.

2.6 List other potentially affected people, agencies, or tribes (that are not landowners/managers) that need to be notified or coordinated with. Describe method of notification and coordination.

See handbook — [Other Potentially Affected Publics](#) for requirements and suggestions.

Refer to table above.

3. IDENTIFY NATURAL RESOURCES

See Handbook — [Natural Resources](#)

3.1 List any water resources (streams, rivers, lakes, wetlands) that may be impacted by vegetation control activities. For each water body describe the control methods and requirements or mitigation measures that will be used.

See Handbook — [Water Resources](#) for requirements for working near water resources including buffer zones.

Span		Waterbody	T&E?	Method	Herbicide	Application Technique	Buffer	Other
To	From							
22\1 + 171'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	Fairview-Rogue #1
22\3 + 693'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
23\3 + 169'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
23\3 + 956'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
24\2 + 205'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
24\5 + 371'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
25\2 + 283'	25\2 + 562'	Two mile Creek	Yes	CLS	Garlon 4	Spot Stump/LV foliar	35'	
25\6 + 280'	25\6 + 565'	South Two mile Creek	Yes	CLS	Garlon 4	Spot Stump/LV foliar	35'	
26\2 + 320'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	

26\4 + 558'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
26\5 + 671'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
26\6 + 133'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
26\6 + 603'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
27\1 + 552'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
27\3 + 80'	27\3 + 930'	Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	4 crossings in this area
27\4 + 470'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
27\4 + 965'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
27\5 + 498'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
27\5 + 799'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
28\2 + 447'	28\2 + 952'	Four mile Creek	Yes	CLS	Garlon 4	Spot Stump/LV foliar	35'	
28\3 + 251'		Unnamed drain	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
28\4 + 615'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	

28\6 + 303'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
29\2 + 291'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
29\2 + 669'		Unnamed drain	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
29\3 + 630'		Conner Creek	Yes	CLS	Garlon 4	Spot Stump/LV foliar	35'	
29\5 + 530'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
30\2 + 1016'		Davis Creek	Yes	CLS	Garlon 4	Spot Stump/LV foliar	35'	
31\1 + 915'		Bethel Creek	Yes	CLS	Garlon 4	Spot Stump/LV foliar	35'	Save as much brush as possible on banks.
31\4 + 867'		Butte Creek	Yes	CLS	Garlon 4	Spot Stump/LV foliar	35'	
31\5 + 447'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
32\1 + 314'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
32\3 + 609'	32\3 + 734'	Morton Creek	Yes	CLS	Garlon 4	Spot Stump/LV foliar	35'	
33\1 + 655'	33\1 + 1445'	Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	3 crossings in this area
33\3 + 575'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	

33\4 + 437'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
33\6 + 615'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	Remove only hazardous brush around creek.
34\1 + 682'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
34\1 + 975'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
34\3 + 469'	34\3 + 557'	Floras Creek	Yes	CLS	Garlon 4	Spot Stump/LV foliar	35'	Do not cut brush or trees—top only what's necessary
35\2 + 1045'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
35\3 + 1012'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
35\4 + 657'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
36\1 + 324'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
36\1 + 522'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
36\2 + 270'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
36\4 + 1193'	36\4 + 1219'	Willow Creek	Yes	CLS	Garlon 4	Spot Stump/LV foliar	35'	

37\4 + 385'	37\4 + 455'	Unnamed pond	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
37\4 + 511'	37\4 + 792'	Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	2 crossings in this area
37\5 + 560'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
37\5 + 828'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
38\1 + 505'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
38\2 + 630'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
38\3 + 402'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
38\4 + 285'	38\4 + 630'	Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	2 crossings in this area
39\1 + 372'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
39\1 + 705'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
39\2 + 418'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
39\3 + 270'	39\3 + 724'	Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	2 crossings in this area
40\3 + 750'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	

40\4 + 415'	40\4 + 1006'	Crystal Creek	Yes	CLS	Garlon 4	Spot Stump/LV foliar	35'	
41\2 + 251'	41\2 + 373'							2 crossings in this area
41\4 + 565'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
41\4 + 953'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	Protect water lines in this area
41\5 + 628'	41\5 + 751'	Sixes River	Yes	CLS	Garlon 4	Spot Stump/LV foliar	35'	
42\4 + 599'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
42\5 + 844'	42\5 + 944'	Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	2 crossings in this area
43\6 + 575'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
44\1 + 908'		Indian Creek	Yes	CLS	Garlon 4	Spot Stump/LV foliar	35'	
44\2 + 1540'	44\2 + 1716'	Elk River	Yes	CLS	Garlon 4	Spot Stump/LV foliar	35'	
44\3 + 932'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
46\3 + 177'	46\3 + 476'	Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	2 crossings in this area
46\4 + 139'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
46\5 + 559'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	

46\6 + 542'		Hubbard Creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
46\6 + 1264'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
47\1 + 360'	47\1 + 1032'	Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	3 crossings in this area
47\2 + 844'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
50\2 + 206'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
51\1 + 854'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
51\2 + 773'	51\2 + 901'	Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	2 crossings in this area
51\3 + 586'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
51\3 + 1120'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
51\3 + 1190'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
52\2 + 495'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
52\3 + 454'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
52\5 + 768'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	

53\1 + 741'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
53\2 + 457'		Brush Creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
53\2 + 740'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
53\3 + 611'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
54\2 + 409'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
54\2 + 546'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
54\2 + 927'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
54\4 + 735'	54\4 + 924'	Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	2 crossings in this area
54\4 + 1034'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
55\1 + 355'	55\1 + 1267'	Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	4 crossings in this area
55\3 + 362'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
55\4 + 319'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
55\5 + 759'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	

55\5 + 964'	55\5 + 1175'	Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	2 crossings in this area
56\1 = 390'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
56\2 + 640'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
56\2 + 1075'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
56\4 + 441'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
56\5 + 1432'		Mussel Creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
56\5 + 2408'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
57\1 + 104'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
57\2 + 430'	57\2 + 1153'	Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	5 crossings in this area
57\3 + 296'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
57\3 + 659'	57\4 + 236'	Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	6 crossings in this area
57\4 + 646'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
58\1 + 333'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	

58\1 + 857'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
58\5 + 232'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
58\5 + 825'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
58\5 + 1185'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
59\3 + 1129'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
59\5 + 1141'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
60\2 + 640'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
60\4 + 750'	60\4 + 1183'	Euchere Creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	2 crossings in this area. Save willows between fences.
61\2 + 699'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
61\3 + 1132'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
61\4 + 1050'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
62\2 + 361'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
62\3 + 360'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	

62\3 + 888'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
62\6 + 1059'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
62\6 + 1250'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
63\1 + 640'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
63\2 + 609'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
63\2 + 1000'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
63\3 + 637'	63\3 + 730'	Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	3 crossings in this area
64\1 + 979'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
65\1 + 696'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
65\2 + 681'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
65\3 + 757'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
66\3 + 1300'	66\3 + 1332'	Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
64\4 + 141'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	

1\4 + 356'	1\4 + 552'	Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	Rogue- Gold Beach #1 2 crossings in this area
2\5 + 340'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
2\11 + 698'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
3\1 + 311'	3\1 + 393'	Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	2 crossings in this area
3\3 + 217'	3\3 + 428'	Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	2 crossings in this area
3\8 + 590		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
4\2 + 230'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
4\3 + 186'	4\3 + 432'	Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	3 crossings in this area
4\4 + 310'	4\4 + 435'	Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	2 crossings in this area
4\5 + 501'	4\5 + 626'	Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	2 crossings in this area
4\6 + 430'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
5\1 + 398'	5\1 + 2261'	Rogue River	Yes	CLS	Garlon 4	Spot Stump/LV foliar	35'	
5\2 + 769'	5\2 + 1019'	Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	

6\2 + 895'		Unnamed creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	
6\5 + 1000'	6\5 + 1042'	Riley Creek	No	CLS	Garlon 4	Spot Stump/LV foliar	35'	

3.2 If planning to use herbicides, list locations of any known irrigation source, wells, or springs (landowners maybe able to provide this info if requested).

See Handbook — [Herbicide Use Near Irrigation, Wells or Springs](#) for buffers and herbicide restrictions.

Span		Well/irrigation/or spring	Herbicide	Buffer	Other notes/measures
To	From				
33\5 + 561'		Spring	Garlon 4	50'	Do not fall trees around spring—top if necessary
35\4 + 845'	35\4 + 858'	Spring, tributary and buried water lines	Garlon 4	50'	
41\1 + 573'		Spring and tributary	Garlon 4	50'	Protect water lines and springs
54\1 + 941'		Spring	Garlon 4	50'	
54\2 + 588'		Water line from well	Garlon 4	50'	
54\3 + 436'		Spring	Garlon 4	50'	
64\1 + 325'	64\1 + 356'	Spring tributary and water line	Garlon 4	50'	

3.3 List below the areas that have Threatened or Endangered Plant or Animal Species and the name of the species, and any special measures that need to be taken due to their presence. Attach any BAs, T&E maps, or letters from US Fish and Wildlife.

See Handbook — [T&E Plant or Animal Species](#) for requirements and determining presence.

Span		T&E Species	Method/mitigation or avoidance measures
To	From		
		Anadromous Fish Runs	Listed in 3.1—Water Resources
1\5		Western Lily	Bandon-Rogue #1 —Within .25 miles of ROW--no work to be done in this area.

26\6	27\1	Western Lily (2 spots)	Fairview-Rogue #1 --1 st spot is adjacent to ROW east side near 26\6. 2 nd spot is .23 miles from ROW west side midspan of 26\6 to 27\1. Occurrences will be identified and avoided. Only vegetation hazardous to the transmission line will be removed in the immediate area. No herbicides in this area.
5\1	5\2	Brown Pelican	Rogue-Gold Beach #1 —Nest is above Rogue River crossing. No work to be done in this area.

3.4 List any other measures to be taken for enhancing wildlife habitat or protecting species.

See Handbook — [Protecting Other Species](#) for requirements.

None at this time.

3.5 List any visually sensitive areas and the measures to be taken at these areas.

See Handbook — [Visual Sensitive Areas](#) for requirements.

Span		Describe sensitivity	Method/mitigation measures
To	From		
28\2 + 200'	28\2 + 419'	Four mile Rd.— Road screen	Sufficient vegetation will be left to screen the view of the ROW, if possible. All debris created will be chipped and disposed of properly. All low-growing plant species will be maintained. No broadcast foliar herbicide application.
31\1 + 1100'	31\1 + 1850'	Scenic area visible from Bethel Creek Rd.	Sufficient vegetation will be left to screen the view of the ROW, if possible. All debris created will be chipped and disposed of properly. All low-growing plant species will be maintained. No broadcast foliar herbicide application.
41\5	41\5 + 1610'	Sixes River drainage	Sufficient vegetation will be left to screen the view of the ROW, if possible. All debris created will be chipped and disposed of properly. All low-growing plant species will be maintained. No broadcast foliar herbicide application.
44\3 – 600'	44\3	Elk River drainage	Sufficient vegetation will be left to screen the view of the ROW, if possible. All debris created will be chipped and disposed of properly. All low-growing plant species will be maintained. No broadcast foliar herbicide application.
54\2 + 175'	54\2 + 1075'	Private residence and watershed	Sufficient vegetation will be left to screen the view of the ROW, if possible. All debris created will be chipped and disposed of properly. All low-growing plant species will be maintained. NO HERBICIDES in this area.
3\7 + 50'	5\2 + 378'	Rogue River Scenic Area	Rogue-Gold Beach #2 --Sufficient vegetation will be left to screen the view of the ROW, if possible. All debris created will be chipped and disposed of properly. All low-growing plant species will be maintained. NO HERBICIDES in this area.

3.6 List areas with cultural resources and the measures to be taken in those areas.

See Handbook – [Cultural Resources](#) for requirements.

No known cultural resources present. The project does not include any ground disturbing activities. In the event that project activities unearth or discover any cultural/historic or prehistoric materials, work will cease immediately; and will not resume until a professional archaeologist has evaluated the site

3.7 List areas with steep slopes or potential erosion areas and the measure and methods to be applied in those areas.

See Handbook – [Steep/Unstable Slopes](#) for requirements.

Removal of vegetation on steep slopes is restricted to tall-growing species that are a hazard to the transmission line.

3.8 List areas of spanned canyons and the type of cutting needed.

See Handbook – [Spanned Canyons](#) for requirements.

Removal of vegetation in spanned canyons restricted to tall-growing species that are a hazard to the transmission line.

4. DETERMINE VEGETATION CONTROL METHODS

See Handbook — [Methods](#)

4.1 List Methods that will be used in areas not previously addressed in steps above.

See Handbook — [Manual](#), [Mechanical](#), [Biological](#), and [Herbicides](#) for requirements for each of the methods.

Select Cut = cut, lop and scatter to extent necessary to prevent fire hazard.

Low Cut = Remove all vegetation at ground level, CLS to prevent fire.

Chip Acres = select cut and chip all debris generated

Access Road Acres = select/low cut method on access roads

Side-limb =remove limbs/tops of large trees

Tower Sites =low cut method 30-50' radius around tower site

Herbicide application = spot/stump treatment of resprouting species.

Backpacks will be used with a 25% Garlon 4 / 75% crop oil mix. Follow-up herbicide treatment uses a 1-2% Garlon 4 / 5% crop oil / 93-94% water mix. Refer to the attached detail sheet for span-by-span analysis.

5. DETERMINE DEBRIS DISPOSAL AND REVEGETATION

5.1 Describe the debris disposal methods to be used and any special considerations.

See Handbook — [Debris disposal](#) for a checkbox list and requirements.

Debris Disposal:

Chip: (Mechanical brush disposal unit cuts brush into chips 4 in. or less in diameter, and spread over ROW, piled on ROW, or trucked off site. Trunks too large for the chipper are limbed and the limbs chipped. Trunks are placed in rows along the edge of the right-of-way or scattered, as the situation requires.)

Lop and Scatter: (Branches of a fallen tree are cut off (lopped) by ax or chainsaw, so the tree trunk lies flat on the ground. The trunks are occasionally cut in 1-to-2-m (4-to-8-ft.) lengths. The cut branches and trunks are then scattered on the ground, laid flat, and left to decompose.)

Mulch: (Mulching is a debris treatment that falls between chipping and lop-and-scatter. The debris is cut into 1-to-2-ft. lengths, scattered on the right-of-way and left to decompose. This method is used when terrain and conditions do not allow the use of mechanical chipping equipment.)

5.2 List areas of reseeding or replanting (those areas not already described in steps 1, 2, or 3).

See Handbook — [Reseeding/replanting](#) for requirements.

Reason for Reseed/plant	Type of Seed or Plants	Native?
Native, non-native and naturalized grasses are present on the entire ROW that will naturally reseed into the areas that have been lightly disturbed by vegetation management activities	N/A	N/A

5.3 If not using native seed/plants, describe why.

N/A

5.4 Describe timing and any follow-up that will need to take place to ensure germination/success of seeding/planting.

N/A

6. DETERMINE MONITORING NEEDS

See handbook — [Monitoring](#) for requirements.

6.1 Describe the follow-up/monitoring cycle that will be used to evaluate the effectiveness of the vegetation control methods used.

Monitoring will occur in the form of inspection while the work is being done. Subsequent monitoring will occur by the TLM Foreman 1 and his crew as well as by the Natural Resource Specialist at convenient times. Helicopter reports (4x/yr.) and working patrol (yearly) will keep the NRS updated on hot spots.

6.2 Describe any follow-up or monitoring needed to determine if mitigation measures were effective.

Survey vegetation growth of native and weed species in sensitive areas. Monitor for erosion potential during every inspection. Monitor growth rate and return of species along tower sites and access roads to predict accessibility in the foreseeable future.

7. PREPARE APPROPRIATE ENVIRONMENTAL DOCUMENTATION

See handbook — [Prepare Appropriate Environmental Documentation](#) for requirements. . Also prepare Supplement Analysis — [Supplement Analysis](#) — for signature.

7.1 Describe any potential project impacts or project work that are different than those disclosed in the Transmission System Vegetation Management Program EIS. Describe how those differences impact natural resources and if the differences are “substantial”.

None-Project is consistent with EIS.

7.2 Is there a need for additional NEPA documentation (i.e. Forest Service requirement, Record of Decision, supplemental EIS)? If so, attach.

None