

United States Government

Department of Energy
Bonneville Power Administration

memorandum

DATE: April 12, 2002

REPLY TO
ATTN OF: KEPR/Covington

SUBJECT: Supplement Analysis for the Transmission System Vegetation Management Program FEIS
(DOE/EIS-0285/SA-55)

TO: Don Atkinson - TFN/Snohomish

Proposed Action: Vegetation Management along the Raver – Paul No. 1 Transmission Line ROW from structure 15/5 to 29/3. The transmission line is a 500 kV line.

Location: The ROW is located Pierce County, WA.

Proposed by: Snohomish Regional Headquarters, Bonneville Power Administration (BPA).

Description of the Proposed Action: BPA proposes to clear unwanted vegetation in the rights-of-ways and around tower structures that may impede the operation and maintenance of the subject transmission line, including both Reclaim and Danger Trees. Also, access road clearing will be conducted. All work will be in accordance with the National Electrical Safety Code and BPA standards. 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: This project meets the standards and guidelines for the Transmission System Vegetation Management Program Final Environmental Impact Statement (FEIS) and Record of Decision (ROD).

Planning Steps

1. Identify facility and the vegetation management need.

The work involved will be to clear tall growing vegetation (including reclaim and danger trees) that currently pose a hazard to the lines; selectively cut, lop and scatter and stump treat brush and other tall growing vegetation that currently or will in the near future pose a threat to the lines, treat the associated stumps and re-sprouts with herbicides to ensure that the roots are killed preventing new sprouts. All work, except danger tree work, will take place in existing rights-of-ways.

All work will be accomplished by selective vegetation control methods to assure that there is little potential harm to non-target vegetation and to low-growing plants. Desirable low-growing plants will not be disturbed. The work will provide system reliability.

Access roads will be treated using machine and hand cutting.

The vegetation control is designed to provide a 3-5 year maintenance free interval. The overall vegetation management scheme will initially include selective removal and treatment of tall growing species utilizing cut and stump treat methods using practically non toxic to slightly toxic herbicides as outlined in the attached checklist.

Subsequent work will be needed the following growing season as follow-up to treat misses and any other re-growth.

Future cycles - As tall growing species are controlled, 5-8 year entry treatments will be needed.

2. Identify surrounding land use and landowners/managers.

The subject corridor traverses rural residential, farms, grazing lands, and small and private forestlands. Landowners will be notified of the upcoming work by letters, personal contact and door hangers.

3. Identify natural resources.

Riparian areas and T&E streams (see attached checklist at 3.1) have been identified in the areas of the proposed work. In addition, the project will cross steep slope and spanned canyon areas (see checklist at 3.7 and 3.8).

No other T&E/wildlife issues, visually sensitive areas, cultural resources or other natural resource issues have been identified along the other work corridor.

The herbicides used for vegetation management will be consistent with what is specified in the Vegetation Management FEIS.

4. Determine vegetation control and debris disposal methods.

A licensed contractor would undertake the proposed work. The unwanted vegetation would be removed by employing cut stump, basal and foliar treatment methods. Chemical means would be employed to prevent resprouts from the cut stumps. Herbicides used would be applied by licensed applicators following manufacturers' label instructions and BPA's management prescriptions. Herbicide used would be consistent with the guidance outlined in the Vegetation Management FEIS.

The contractor will receive a list of required mitigation measures (management prescriptions) to follow as well as a set of maps delineating the transmission line and potential sensitive resource areas. The contractor will follow manufacturers label instructions when applying herbicides.

Debris will be disposed by:

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.) Mowing and mulching along access roads.

5. Determine revegetation methods, if necessary.

Re-seeding will occur only along those places where soil disturbance has occurred.

6. Determine monitoring needs.

An inspector will monitor the work being performed at the time of the initial work. Follow-up inspections will be performed during routine regular patrols. Additional required work would be identified at that time.

7. *Prepare appropriate environmental documentation.*

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/ Mark A. Martin

Mark A. Martin
Environmental Protection Specialist

CONCUR /s/ Thomas C. McKinney

Thomas C. McKinney
NEPA Compliance Officer

DATE: 04/26/2002

Attachments

cc:

L. Croff – KEC-4

T. McKinney - -KEC-4

J. Meyer – KEP-4

J. Sharpe – KEPR-4

P.Key – LN-7

M. Johnson – TF/DOB-1

S. Davis – TFN/Snohomish

L. Alvarez – TFN/Snohomish

C. Pursiful – TFNK/Covington

Environmental File – KEC

Official File – KEP-4 (EQ-14)

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Vegetation Management Checklist

Raver-Paul No. 1

15/5 to 29/3

Prepared by: **Don Atkinson**
Natural Resource Specialist
April 4, 2002

1. IDENTIFY FACILITY AND THE VEGETATION MANAGEMENT NEED

1.1 Describe Right-of-way.

Corridor Name	Corridor Length & kV	Easement width	Miles of Treatment
Raver-Paul No. 1, 500kv	15/5 to 29/3	262.5 to 280.0	Approx. 14 miles

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](#).

Right Of Way:

Right-of-Way – clearing in right-of-way using a combination of machine cutting and hand cutting.

Transmission Structures – clearing around structures as needed by a combination of machine and hand cutting

Access Road clearing - approximate miles – **19 of machine and hand cutting (this includes both on and off right-of-way access roads)**

Reclaim (“C”) Trees – will be cut as part of this project

Danger Tree clearing – will be done as part of this project

1.2 Describe the vegetation needing management.

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

Vegetation Types:

Western Red Cedar

Douglas Fir

Hemlock

Alder

Willows – mid span or where ground to conductor is low

Cottonwoods

Scotch Broom – along access roads and around structures

Blackberry

Density:

The density is variable through the project and ranges from Low (50 stems or less per acre) to High (450 + 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 treated. Low growing plants (plant communities) will not be (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 spot herbicide treatments on species that re-sprout will be carried out to ensure that the roots are killed (follow-up treatment may take place during the next growing season). Herbicides will not be applied using high volume methods to ensure that non-target species are not treated.

Note: there is no Forest Service land in this project.

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 – Cut, lop and scatter, treat stumps where possible to prevent re-sprouting (on State and Private lands). Areas where densities are high, or that have lots of Scotch Broom will be mowed using a track mounted mowing head. Access roads and structure sites may also be mowed and chemically treated.

Subsequent entries – Follow-up/re-treatment, within the next growing season, with herbicides in areas that were not treated due to adverse weather conditions or where there was not a good kill. Access roads, structure sites and areas that were not treated immediately after cutting will be spot treated within one growing season.

Future cycles – This area is being managed on a 3 to 5 year cycle for brush and danger trees.

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.

Plum Creek Timber, Washington State DNR, Campbell Group (Kapowsin Tree Farm)

Small private landowners: rural residential, agriculture, pasture

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

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

Letters or Personal contact and door hangers.

Met with the Campbell Group on March 19, 2002, to discuss ROW management activities within the Kapowsin Tree Farm, and information required by BPA's Contractors entering the tree farm (see attached letter).

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](#).

See 2.4 for tree & brush agreement.

***Note-not all areas within the project area will be treated with chemicals, riparian areas, and areas where private landowners who do not want chemicals used will not be treated.**

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.

Raver-Paul No. 1 (See attached maps for locations)

Span		Landowner/use	Specific measures to be applied
From	To		
19/2 + 890	19/4 + 00	Turok, Mike, Domestic Water Supply	Contact landowner before cutting or treating with herbicides.
24/4 + 340	24/5 + 90	Gale, T. Tree & Brush Agreement	Land owner will maintain
25/1 + 25	25/1 + 250	Horan, R. A. Drain Field.	Need to protect drain field from heavy equipment
26/4 + 520	27/1 + 360	Stillman, C. G. Sensitive Landowner	Contact landowner before cutting or treating with herbicides.

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.

Horse back riding from the 16 mile to the 23 mile.

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.

None known within the project area.

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.

Raver-Paul No. 1 (See attached maps for locations)

Span		Waterbody	T&E?	Treatment Zone	Herbicide	Application Technique	Buffer	Other
From	To							
16/1 + 75	16/1 + 390	Creek	no	Riparian	See Below	See below	See below	
16/1 + 550	16/1 + 710	Marsh/ Wetland	no	Riparian	See below	See below	See below	
16/3 + 400	16/3 + 550	Creek/ Wetland	no	Riparian	See below	See below	See below	
17/2 + 210	17/2 + 720	Creek, Springs & Wetland	no	Riparian	See below	See below	See below	
17/4 + 125	17/4 + 975	Marsh/ Wetland	no	Riparian	See below	See below	See below	
14/4 + 975	18/1 + 1000	Page Creek & wetlands	Yes	Riparian T&E	See below	See below	See below	Anadromous fish
18/1 + 1000	18/1 + 1910	So. Prairie Creek	Yes	Riparian T&E	See below	See below	See below	Anadromous fish
19/2 + 200	19/2 + 510	Wetland	no	Riparian	See below	See below	See below	
20/3 + 650	20/3 + 800	Creek	no	Riparian	See below	See below	See below	
20/4 + 635	20/5+ 00	Wilkeson Creek	yes	Riparian T&E	See below	See below	See below	Anadromous fish, Bull Trout
20/5 + 800	20/5 + 900	Creek Intermittent	no	Riparian	See below	See below	See below	
21/4 + 180	21/4 + 280	Creek Intermittent	no	Riparian	See below	See below	See below	
22/3 + 100	22/3 + 425	Creek & Wetland	no	Riparian	See below	See below	See below	
22/3 + 600	22/3 + 1825	Carbon River	yes	Riparian T&E	See below	See below	See below	Anadromous fish, Bull Trout

Raver - Paul No. 1 (see attached maps for locations)

Span		Waterbody	T&E?	Treatment Zone	Herbicide	Application Technique	Buffer	Other
From	To							
22/4 + 00	22/4 + 400	Marsh	no	Riparian	See below	See below	See below	
23/1 + 325	23/2 + 890	Marsh & Wetlands	no	Riparian	See below	See below	See below	
23/3 + 30	23/3 + 500	Creek & Wetlands	no	Riparian	See below	See below	See below	
23/4 + 60	23/4 + 1125	Creeks & Wetlands	no	Riparian	See below	See below	See below	
23/5 + 625	23/5 + 725	Creek Intermittent	no	Riparian	See below	See below	See below	
24/1 + 300	24/1 + 400	Creek Intermittent	no	Riparian	See below	See below	See below	
24/2 + 60	24/2 + 450	Creek & Ponds	no	Riparian	See below	See below	See below	
24/5 + 250	24/5 + 925	Creek & Ponds	no	Riparian	See below	See below	See below	
25/1 + 360	25/1 + 1280	Voight Creek	yes	Riparian T&E	See below	See below	See below	Anadromous Fish
25/2 + 600	25/2 + 1030	Wetlands	no	Riparian	See below	See below	See below	
25/3 + 580	25/3 + 1320	Wetlands	no	Riparian	See below	See below	See below	
25/4 + 450	25/4 + 675	Wetlands	no	Riparian	See below	See below	See below	
26/1 + 200	26/1 + 690	Creek Intermittent	no	Riparian	See below	See below	See below	
26/3 + 330	26/3 + 450	Spring	no	Riparian	See below	See below	See below	
26/3 + 625	26/3 + 730	Spring	no	Riparian	See below	See below	See below	
26/4 + 240	26/4 + 1140	Coplar Cr. & wetlands	no	Riparian	See below	See below	See below	
27/4 + 575	24/4 + 775	Wetlands	no	Riparian	See below	See below	See below	

Raver - Paul No. 1 (see attached maps for locations)

Span		Waterbody	T&E?	Treatment Zone	Herbicide	Application Technique	Buffer	Other
From	To							
28/1 + 60	28/1 + 180	Wetlands	no	Riparian	See below	See below	See below	
28/1 + 800	28/1 + 1010	Creeks	no	Riparian	See below	See below	See below	
28/2 + 1140	28/3 + 410	Wetlands	no	Riparian	See below	See below	See below	
28/3 + 720	28/3 + 1030	Creek	no	Riparian	See below	See below	See below	
28/4 + 240	28/4 + 820	Wetlands	no	Riparian	See below	See below	See below	
29/1 + 230	29/1 + 340	Intermittent Creek	no	Riparian	See below	See below	See below	
29/1 + 750	29/1 + 850	Intermittent Creek	no	Riparian	See below	See below	See below	
29/2 + 580	29/2 + 680	Intermittent Creek	no	Riparian	See below	See below	See below	
29/2 + 970	29/2 + 1070	Intermittent Creek	no	Riparian	See below	See below	See below	
29/3 + 190	29/3 + 625	Puyallup River	yes	Riparian T&E	See below	See below	See below	Anadromous Fish & Bull Trout
Riparian	<p>RIPARIAN: County or private lands, within 30.5 m (100 ft.) of a stream or open water. Available: all manual, spot and localized herbicide, and biological treatments, except grazing. No mechanical treatments.</p> <p>Herbicides: Within 100 ft. of a stream, only cut-stump and localized treatments using practically toxic or Slightly toxic formulations of glyphosate, imazapyr, and Escort can be used up to the waters edge. Highly Toxic and very highly toxic (to fish) herbicides will not be used in this zone. Triclopyr (Garlon 4) may be used only more than 200 ft. from streams or water.</p>							
Riparian T&E	<p>RIPARIAN SALMON: BPA, county, or private lands, within 122 m (400 ft.) of a listed salmon or bull trout stream. Available: all manual, spot and localized herbicide, and biological treatments, except grazing. No mechanical treatments except along access roads and around structures.</p> <p>Herbicides: No herbicide treatments allowed within the buffer zone.</p>							

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 restriction

Raver-Paul No. 1 (See attached maps for locations)

Span		Wells, Irrigation or Springs	Treatment Zone	Buffer
From	To			
19/2 + 890	19/4 + 00	Domestic water supply	Non Herbicide Area	From 19/2 + 890 to 19/4 +00
24/4 + 400	24/4 + 600	Well	Non Herbicide Area	100 ft. radius around well head
28/2 + 820	28/2 + 1020	Well	Non Herbicide Area	100 ft. radius around well head
NON-HERB	NON-HERBICIDE AREAS Water sources, springs, wells and other sensitive lands within 100 feet of sensitive Riparian areas or water sources. Hand Cutting Methods only, no Herbicides allowed. WELLS: No herbicides allowed within 100 feet of wellhead. Use only herbicides that do not have ground or surface water advisories between 100 and 165 feet of wellhead. Approved herbicides include: glyphosate, imazapyr, tryclopyr, Escort,			

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.

Raver-Paul No. 1 (See attached maps for locations)

Span		Waterbody	T&E?	Treatment Zone	Herbicide	Application Technique	Buffer	Other
From	To							
17/4 + 975	18/1 + 1910	Page Creek & So. Prairie Creek	yes	Riparian T& E	See Below	See below	See below	Anadromous Fish & Bull Trout
20/4 + 635	20/5 + 00	Wilkeson Creek	yes	Riparian T&E	See below	See below	See below	Anadromous Fish
22/3 + 630	22/3 + 1980	Carbon River	yes	Riparian T&E	See below	See below	See below	Anadromous Fish & Bull Trout
25/1 + 360	25/1 + 1280	Voight Creek	yes	Riparian T&E	See below	See below	See below	Anadromous Fish
29/3 + 190	29/3 + 625	Puyallup River	yes	Riparian T&E	See below	See below	See below	Anadromous Fish
Riparian T&E	RIPARIAN SALMON: BPA, county, or private lands, within 122 m (400 ft.) of a listed salmon or bull trout stream. Available: all manual, spot and localized herbicide, and biological treatments, except grazing. No mechanical treatments except along access roads and around structures. Herbicides: No herbicide treatments allowed within the buffer zone.							

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

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

None mapped. See resources for mitigation for salmon and Bull Trout.

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

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

None Known, however the areas that would possibly be visually sensitive would be along the Carbon and Puyallup Rivers. The Treatment planned for these areas is select tree cutting, which would meet any visual quality objectives.

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

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

None known within the right-of-way.

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. See attached maps for exact locations.

Raver - Paul No. 1, (see attached maps for locations)

Span		Describe sensitivity	Method/mitigation measures
From	To		
16/3 + 00	16/3 + 400	Steep slope	See below
17/2 + 00	17/2 + 210	Steep slope	See below
17/4 + 00	17/4 + 125	Steep slope	See below
18/1 + 1000	18/2 + 00	Steep slope	See below
22/3 + 100	22/3 + 2225	Steep slope	See below
23/5 + 275	24/1 + 00	Steep slope	See below
24/4 + 300	24/4 + 400	Steep Slope	See below
25/1 + 360	25/1 + 1280	Steep Slope	See below
26/3 + 50	26/3 + 330	Steep Slope	See below
26/4 + 1140	27/2 + 00	Steep Slope	See below
28/1 + 125	28/2 + 00	Steep Slope	See below
29/1 + 70	29/1 + 230	Steep Slope	See below
29/1 + 750	29/1 + 850	Steep Slope	See below
29/3 + 190	29/3 + 625	Steep Slope	See below
Zones	Treatment Alternatives		
SS	<p>BPA Fee owned State DNR, or private lands where a steep slope or visual resources precludes mechanical treatments except on access roads and around structures. Available: all manual and biological treatments. All herbicide treatments including cut-stubble treatment following a mechanical treatment on access roads and structure sites.</p> <p>Herbicides: glyphosate, triclopyr (Garlon 3A and 4), imazapyr, dicamba may be prescribed for cut-stump, stem-injection, and basal-stem treatments. In addition to the above herbicides, Escort, and clopyralid can be used spot foliar and broadcast treatments. 2,4-d amine can be added to the list to control noxious weed species.</p>		

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

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

Monroe-Custer No. 1

Span		Describe sensitivity	Method/mitigation measures
To	From		
18/1 + 1000	18/1 + 1620	Select Tree Cut	See below
19/3 + 680	19/3 + 1070	Select Tree Cut	See below
20/4 + 1010	20/4 + 1200	Select Tree Cut	See below
22/3 + 660	22/3 + 1825	Select Tree Cut	See below
25/1 + 740	25/1 + 880	Select Tree Cut	See below
29/1 + 230	29/1 + 340	Select Tree Cut	See below
29/3 + 225	29/3 + 625	Select Tree Cut	See below
Zones	Treatment Alternatives		
STC	<p>Any areas in the corridor with greater than 38.1 m (125 ft.) vertical distance between the ground surface and transmission lines. Here, removal is periodically required only of individual trees (single tree cuts) that could encroach into the transmission corridor danger zone.</p> <p>Herbicides: None.</p>		

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.

Zones	Treatment Alternatives
LT	<p>LEVEL TERRAIN: BPA, county, or private lands where the ROW is Fairly flat and level. There are minimal environmental and treatment restrictions. Available: all manual, mechanical (when conditions make it feasible), and biological treatments: all herbicide treatments spot, localized, and broadcast treatment including cut-stubble treatment following a mechanical treatment where suitable.</p> <p>Herbicides: glyphosate, triclopyr (Garlon 3A and 4), imazapyr, dicamba may be prescribed for cut-stump, stem-injection, and basal-stem treatments. In addition to the above herbicides, Escort, and clopyralid can be used spot foliar and Broadcast treatments. 2,4-d amine can be added to the list to control Noxious weed species.</p>
MS 20% - 40%	<p>MODERATE SLOPE: BPA, county, or private lands where the ROW varies from flat to moderately steep terrain with stable soils. . Available: all manual, mechanical treatments using rubber tired mowers on slopes up to 20%, track mowers on slopes 40% to 60%, and specializes mowing equipment such as the Spyder (trade name) can be used on slopes up to 90% - 100% (when conditions make it feasible). All access roads and structure sites may also be mowed. Also available are biological treatments and all herbicide treatments spot, localized, and broadcast treatment including cut-stubble treatment following a mechanical treatment where suitable.</p> <p>Herbicides: glyphosate, triclopyr (Garlon 3A and 4), imazapyr, dicamba may be prescribed for cut-stump, stem-injection, and basal-stem treatments. In addition to the above herbicides, Escort, and clopyralid can be used spot foliar and Broadcast treatments. 2,4-d amine can be added to the list to control Noxious weed species.</p>
MS-SS 40% - 60%	<p>MODERATE SLOPE to STEEP SLOPE: BPA, county, or private lands where the ROW varies from moderate to steep terrain with stable soils. . Available: all manual, mechanical treatments (track mowers) on slopes 40% to 60%, and specializes mowing equipment such as the Spyder (trade name) can be used on slopes up to 90% - 100% (when conditions make it feasible). All access roads and structure sites may also be mowed. Also available are biological treatments and all herbicide treatments spot, localized, and broadcast treatment including cut-stubble treatment following a mechanical treatment where suitable.</p> <p>Herbicides: glyphosate, triclopyr (Garlon 3A and 4), imazapyr, dicamba may be prescribed for cut-stump, stem-injection, and basal-stem treatments. In addition to the above herbicides, Escort, and clopyralid can be used spot foliar and Broadcast treatments. 2,4-d amine can be added to the list to control Noxious weed species.</p>
UR-RU	<p>URBAN-RURAL: BPA, county, or private lands where the ROW is adjacent to rural and residential development. Land-use ranges from backyards, pasture, and open areas. Available: all manual, mechanical (when conditions make it feasible), and biological treatments: all herbicide treatments spot, localized, and broadcast treatment including cut-stubble treatment following a mechanical treatment where suitable.</p> <p>Herbicides: glyphosate, triclopyr (Garlon 3A and 4), imazapyr, dicamba may be prescribed for cut-stump, stem-injection, and basal-stem treatments. In addition to the above herbicides, Escort, and clopyralid can be used spot foliar and Broadcast treatments. 2,4-d amine can be added to the list to control Noxious weed species.</p>

SEE CUT SHEET FOR CONTROL METHODS

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.

Mulching/Mowing

Lope and Scatter, some areas may be chipped due to landowner request.

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.

Not planned at this time. However, if soil disturbance occurs during the project, the area will be re-seeded with native grasses.

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.

Not planned at this time. However, areas needing re-seeding that were cut in the spring or early summer will be planted immediately after the disturbance occurs. Areas needing re-seeding that were cut during the summer, and reseeding is necessary, the area will be re-seeded in the fall just before the fall rains.

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.

Work will be inspected during the project to insure contract compliance. The TLM line crew, and the NRS will also review the project area during working patrol, within one year.

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

The line crew, and the NRS will review the project area within one year, to evaluate the effectiveness of the vegetation control methods prescribed. Any areas needing re-treatment or mitigation.

7. PREPARE APPROPRIATE ENVIRONMENTAL DOCUMENTATION

See handbook — [Prepare Appropriate Environmental Documentation](#) for requirements.

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

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

No

BONNEVILLE POWER ADMINISTRATION
RIGHT-OF WAY MAINTENANCE
VEGETATION CONTROL PRESCRIPTION

CONTRACTOR: _____
WORK ORDER NO.: 00006123, RELEASE NO.: _____

LINE NAME	
RAVER - PAUL NO. 1, 500 kv	15/5 to 22/3 + 1200
OLYMPIA - GRAND COULEE NO. 1, 287 kv	

Treatment Zones	Abbrev.
Moderate Slope	MS
Mod. to Steep Slope	MS-SS
Steep Slope	SS
Riparian	R
Select Tree Cut	STC

TASK ORDER INFORMATION
DATE COMPLETED: _____
CONTRACTOR'S SIGNATURE
INSPECTOR'S SIGNATURE

GENERAL INSTRUCTIONS: Cut, Lop and Scatter (C, L & S), Cut and Chip (C & C) or Cut and Stump Treat (C & S) as indicated in the Control Prescription or as directed by the Field Inspector. Do not cut Vine Maple or Willow unless indicated below or directed by the Field Inspector.

LOCATION			(1)	(2)	(3)	C, L & S	C & S	STC	MACH.	NO.	ZONE	CONTROL PRESCRIPTION
STR. NO.	FROM	TO	WIDTH	LENGTH	ACRES	ACRES	ACRES	ACRES	ACRES	HOURS		(REMARKS)
15/5	0	1321	262.5	1321	8.0		8.0				MS	C, L & S and stump treat or Machine Cut & chem treat
16/1	0	290	263.5	290	1.8		1.8				MS-SS	C, L & S and stump treat or Machine Cut & chem treat
16/1	290	390	263.5	100	0.6	0.6					R/LT	C, L & S Riparian - Intermittent Creek No Herbicide
16/1	390	550	263.5	160	1.0		1.0				MS-SS	C, L & S and stump treat or Machine Cut & chem treat
16/1	550	710	263.5	160	1.0	1.0					R/LT	C, L & S Riparian Wetland No Herbicide
16/1	710	819	263.5	109	0.7		0.7				MS-SS	C, L & S and stump treat or Machine Cut & chem treat
16/2	0	910	263.5	910	5.5		5.5				MS-SS	C, L & S and stump treat or Machine Cut & chem treat
16/3	0	400	263.5	400	2.4		2.4				SS	C, L & S and stump treat
16/3	400	550	263.5	150	0.9	0.9					LT	C, L & S Riparian Wetland/Creek No Herbicide
TOTAL	FOR	PAGE	1		21.7	2.5	19.4	0.0	0.0	0		

LOCATION			(1)	(2)	(3)	C, L & S	C & S	STC	MACH.	NO.	ZONE	CONTROL PRESCRIPTION
STR. NO.	FROM	TO	WIDTH	LENGTH	ACRES	ACRES	ACRES	ACRES	ACRES	HOURS		(REMARKS)
TOTAL	15/5	16/3			21.7	2.5	19.4	0.0	0.0	0		RAVER - PAUL NO. 1, 500kv
16/3	550	1400	263.5	850	5.1		5.1				LT	C, L & S and stump treat or Machine Cut & chem treat
17/1	0	1137	263.5	1137	6.9		6.9				LT	C, L & S and stump treat or Machine Cut & chem treat
17/2	0	210	263.5	210	1.3		1.3				SS	C, L & S and stump treat
17/2	210	720	263.5	510	3.1	3.1					R/MS	C, L & S Riparian Wetland/Creek No Herbicide
17/2	720	1809	263.5	1089	6.6		5.5				MS	C, L & S and stump treat or Machine Cut & chem treat
17/3	0	900	263.5	900	5.4		5.4				LT	C, L & S and stump treat or Machine Cut & chem treat
17/4	0	250	263.5	250	1.5		1.5				SS	C, L & S and stump treat
17/4	250	975	263.5	725	4.4	4.4					R/LT	C, L & S Riparian Wetland/Creek No Herbicide
17/4	975	1690	263.5	715	4.3	4.3					R-T&E/LT	C, L & S Riparian - T&E Page Creek No Herbicide
18/1	0	450	263.5	450	2.7	2.7					R-T&E/LT	C, L & S Riparian - T&E Page Creek No Herbicide
18/1	450	1000	263.5	550	3.3	3.3					R/T&E	C, L & S Riparian - T&E, South Prairie Creek No Herbicide
18/1	1000	1620	263.5	620	3.8			3.8			STC-R	Select Tree Cut Riparian - T&E, South Prairie Creek No Herbicide
18/1	1620	1920	263.5	300	1.8	1.8					R/T&E	C, L & S Riparian - T&E, South Prairie Creek No Herbicide
18/1	1920	2593	263.5	673	4.1		4.1				SS	C, L & S and stump treat
18/2	0	992	263.5	992	6.0		6.0				MS	C, L & S and stump treat or Machine Cut & chem treat
18/3	0	928	263.5	928	5.6		5.6				MS-SS	C, L & S and stump treat or Machine Cut & chem treat
19/1	0	1136	263.5	1136	6.9		6.9				MS-SS	C, L & S and stump treat or Machine Cut & chem treat
19/2	0	260	263.5	260	1.6		1.6				MS	C, L & S and stump treat or Machine Cut & chem treat
19/2	260	510	263.5	250	1.5	1.0	0.5				R/MS	C, L & S Riparian Wetland SEE NOTES No Herbicide
19/2	510	890	263.5	380	2.3		2.3				MS-SS	C, L & S and stump treat or Machine Cut & chem treat
TOTAL	FOR	PAGE	1 & 2		99.9	23.1	72.1	3.8	0.0	0		

NOTES: 17/4 250 to 1690 - see Plan & Profile for area that can be stump treated, South side of ROW, about 2.9 ac.

19/2 260 to 519 - see Plan & Profile for area that can be stump treated, South side of ROW, about 0.5 ac.

LOCATION			(1)	(2)	(3)	C, L & S	C & S	STC	MACH.	NO.	ZONE	CONTROL PRESCRIPTION
STR. NO.	FROM	TO	WIDTH	LENGTH	ACRES	ACRES	ACRES	ACRES	ACRES	HOURS		(REMARKS)
TOTAL	15/5	19/2			99.9	23.1	72.1	3.8	0.0	0		RAVER - PAUL NO. 1, 500kv
19/2	890	972	263.5	82	0.5	0.5					MS-SS	C, L & S DOMESTIC WATER SUPPLY SEE NOTES
19/3	0	680	263.5	680	4.1	4.1					MS-SS	C, L & S DOMESTIC WATER SUPPLY SEE NOTES
19/3	680	1070	263.5	390	2.4			2.4			STC	Select Tree Cut DOMESTIC WATER SUPPLY SEE NOTES
19/3	1070	1779	263.5	709	4.3	4.3					MS-SS	C, L & S DOMESTIC WATER SUPPLY SEE NOTES
19/4	0	1106	263.5	1106	6.7		6.7				LT	C, L & S and stump treat or Machine Cut & chem treat
20/1	0	1165	263.5	1165	7.0		7.0				MS	C, L & S and stump treat or Machine Cut & chem treat
20/2	0	1144	263.5	1144	6.9		6.9				MS-SS	C, L & S and stump treat or Machine Cut & chem treat
20/3	0	650	263.5	650	3.9		3.9				MS-SS	C, L & S and stump treat or Machine Cut & chem treat
20/3	650	800	263.5	150	0.9	0.9					R/LT	C, L & S Riparian Wetland No Herbicide
20/3	800	907	263.5	107	0.6		0.6				LT	C, L & S and stump treat or Machine Cut & chem treat
20/4	0	635	263.5	635	3.8		3.8				LT	C, L & S and stump treat or Machine Cut & chem treat
20/4	635	1010	263.5	375	2.3	2.3					R-T&E/LT	C, L & S Riparian - T&E No Herbicide
20/4	1010	1200	263.5	190	1.1			1.1			STC	Select Tree Cut Riparian - T&E No Herbicide
20/4	1200	1512	263.5	312	1.9	1.9					R/SS	C, L & S Riparian - T&E No Herbicide
20/5	0	800	263.5	800	4.8		4.8				MS-SS	C, L & S and stump treat or Machine Cut & chem treat
20/5	800	900	263.5	100	0.6	0.6					R/MS	C, L & S Riparian - seasonal creek Check before using herbicides
20/5	900	1477	263.5	577	3.5		3.5				MS-SS	C, L & S and stump treat or Machine Cut & chem treat
21/1	0	640	263.5	640	3.9		3.9				MS	C, L & S and stump treat or Machine Cut & chem treat
21/1	640	1225	263.5	585	3.5		3.5				MS-SS	C, L & S and stump treat or Machine Cut & chem treat
21/2	0	1070	263.5	1070	6.5		6.5				MS	C, L & S and stump treat or Machine Cut & chem treat
TOTAL	FOR	PAGE	1 to 3		169.3	37.7	123.2	7.3	0.0	0		

NOTES: 19/.2 + 890 to 19/4 + 00 - Domestic water supply do not use herbicides

LOCATION			(1)	(2)	(3)	C, L & S	C & S	STC	MACH.	NO.	ZONE	CONTROL PRESCRIPTION
STR. NO.	FROM	TO	WIDTH	LENGTH	ACRES	ACRES	ACRES	ACRES	ACRES	HOURS		(REMARKS)
TOTAL	15/5	21/2			169.3	37.7	123.2	7.3	0.0	0		RAVER - PAUL NO. 1, 500kv
21/3	0	1185	263.5	1185	7.2		7.2				MS-SS	C, L & S and stump treat or Machine Cut & chem treat
21/4	0	1140	263.5	1140	6.9		6.9				LT	C, L & S and stump treat or Machine Cut & chem treat
21/4	180	280	263.5	100	0.6	0.6	7.0				R-LT	C, L & S Riparian - intermittenet draw No Herbicide
21/4	280	1140	263.5	860	5.2		5.2				LT	C, L & S and stump treat or Machine Cut & chem treat
22/1	0	1075	263.5	1075	6.5		6.5				LT	C, L & S and stump treat or Machine Cut & chem treat
22/2	0	250	263.5	250	1.5		1.5				MS	C, L & S and stump treat or Machine Cut & chem treat
22/2	250	1165	263.5	915	5.5		5.5				LT	C, L & S and stump treat or Machine Cut & chem treat
22/3	0	100	263.5	100	0.6		0.5				LT	C, L & S and stump treat or Machine Cut & chem treat
22/3	100	420	263.5	320	1.9	1.9					R/MS	C, L & S Riparian - intermittenet draw/wetland No Herbicide
22/3	420	630	263.5	210	1.3		1.3				SS	C, L & S and stump treat
23/3	630	1200	263.5	570	3.4			3.4			STC	Select Tree Cut Riparian - T&E, Carbon River No Herbicide
CHANGE TO				0	0.0							OLYMPIA GRAND COULEE
46/6	1025	1325	125.0	300	0.9			0.9			STC	Select Tree Cut Riparian - T&E, Carbon River
46/6	1325	1515	125.0	190	0.5	0.5					R-T&E	C, L & S Riparian - T&E, Carbon River No Herbicide
46/6	1515	1792	125.0	277	0.8		0.8				MS-SS	C, L & S and stump treat or Machine Cut & chem treat No Herbicide
				0	0.0							END OF PROJECT - CARBON RIVER
				0	0.0							
				0	0.0							
				0	0.0							
				0	0.0							No Herbicide
				0	0.0							

**BONNEVILLE POWER ADMINISTRATION
RIGHT-OF WAY MAINTENANCE
VEGETATION CONTROL PRESCRIPTION**

CONTRACTOR: _____
WORK ORDER NO.: 00006123, RELEASE NO.: _____

LINE NAME	
RAVER - PAUL NO. 1, 500 kv	22/3 + 1200 to 29/3 + 625
OLYMPIA - GRAND COULEE NO. 1, 287 kv	

Treatment Zones	Abbrev.
Moderate Slope	MS
Mod. to Steep Slope	MS-SS
Steep Slope	SS
Riparian	R
Select Tree Cut	STC

TASK ORDER INFORMATION
DATE COMPLETED: _____
CONTRACTOR'S SIGNATURE
INSPECTOR'S SIGNATURE

GENERAL INSTRUCTIONS: Cut, Lop and Scatter (C, L & S), Cut and Chip (C & C) or Cut and Stump Treat (C & S) as indicated in the Control Prescription or as directed by the Field Inspector. Do not cut Vine Maple or Willow unless indicated below or directed by the Field Inspector.

LOCATION			(1)	(2)	(3)	C, L & S	C & S	STC	MACH.	NO.	ZONE	CONTROL PRESCRIPTION
STR. NO.	FROM	TO	WIDTH	LENGTH	ACRES	ACRES	ACRES	ACRES	ACRES	HOURS		(REMARKS)
22/3	1200	1825	262.5	625	3.8			3.8			STC	Select Tree Cut Riparian - T&E, Carbon River No Herbicide
22/3	1825	1980	263.5	155	0.9	0.9					R/T&E	C, L & S Riparian - T&E, Carbon River No Herbicide
22/3	1980	2225	263.5	245	1.5		1.6				SS	C, L & S and stump treat or Machine Cut & chem treat
CHANGE TO THE				0	0.0							OLYMPIA - GRAND COULEE NO. 1
46/6	125	460	125.0	335	1.0		1.0				MS-SS	C, L & S and stump treat or Machine Cut & chem treat
46/6	460	800	125.0	340	1.0	1.0					R/T&E	C, L & S Riparian - T&E, Carbon River No Herbicide
46/6	800	1025	125.0	225	0.6			0.6			STC	Select Tree Cut Riparian - T&E, Carbon River No Herbicide
CHANGE TO THE				0	0.0							RAVER - PAUL NO. 1
22/3	2225	2386	263.5	161	1.0		1.0				LT	C, L & S and stump treat or Machine Cut & chem treat
TOTAL	FOR	PAGE	1		9.7	1.9	3.6	4.4	0.0	0		

LOCATION			(1)	(2)	(3)	C, L & S	C & S	STC	MACH.	NO.	ZONE	CONTROL PRESCRIPTION
STR. NO.	FROM	TO	WIDTH	LENGTH	ACRES	ACRES	ACRES	ACRES	ACRES	HOURS		(REMARKS)
TOTAL	22/3	22/3			9.7	1.9	3.6	4.4	0.0	0		RAVER - PAUL NO. 1, 500kv
22/4	0	200	263.5	200	1.2	1.2					R-LT	C, L & S Riparian Wetland/Creek No Herbicide
22/4	200	896	263.5	696	4.2		4.2				MS-SS	C, L & S and stump treat or Machine Cut & chem treat
23/1	0	425	263.5	425	2.6		2.6				MS-SS	C, L & S and stump treat or Machine Cut & chem treat
23/1	425	954	263.5	529	3.2	3.2					R/MS-SS	C, L & S Riparian Wetland No Herbicide
23/2	0	890	263.5	890	5.4	5.4					R/MS-SS	C, L & S Riparian Wetland No Herbicide
23/2	890	988	263.5	98	0.6		0.6				LT	C, L & S and stump treat or Machine Cut & chem treat
23/3	0	30	263.5	30	0.2		0.2				LT	C, L & S and stump treat or Machine Cut & chem treat
23/3	30	500	263.5	470	2.8	2.8					R/LT	C, L & S Riparian Wetland/Creek No Herbicide
23/3	500	993	263.5	493	3.0		3.0				LT	C, L & S and stump treat or Machine Cut & chem treat
23/4	0	60	263.5	60	0.4		0.4				LT	C, L & S and stump treat or Machine Cut & chem treat
23/4	60	1125	263.5	1065	6.4	4.9	1.4				R/MS	C, L & S Riparian Wetland/Creek See Notes No Herbicide
23/4	1125	1521	263.5	396	2.4		2.4				MS	C, L & S and stump treat or Machine Cut & chem treat
23/5	0	275	263.5	275	1.7		1.7				MS	C, L & S and stump treat or Machine Cut & chem treat
23/5	275	625	263.5	350	2.1		2.1				SS	C, L & S and stump treat
23/5	625	725	263.5	100	0.6	0.6					R/SS	C, L & S Riparian Creek No Herbicide
23/5	725	779	263.5	54	0.3		0.3				MS-SS	C, L & S and stump treat or Machine Cut & chem treat
24/1	0	300	263.5	300	1.8		1.8				MS-SS	C, L & S and stump treat or Machine Cut & chem treat
24/1	300	400	263.5	100	0.6	0.6					R/SS	C, L & S Riparian, Draw No Herbicide
24/1	400	1100	263.5	700	4.2		4.2				MS-SS	C, L & S and stump treat or Machine Cut & chem treat
24/2	0	60	263.5	60	0.4		0.4				MS-SS	C, L & S and stump treat or Machine Cut & chem treat
TOTAL	FOR	PAGE	1 & 2		53.8	20.6	28.9	4.4	0.0	0		

NOTES: 23/4, 60 to 1125 - see Plan & Profile for area that can be stump treated, South side of ROW, about 1.4 ac.

LOCATION			(1)	(2)	(3)	C, L & S	C & S	STC	MACH.	NO.	ZONE	CONTROL PRESCRIPTION
STR. NO.	FROM	TO	WIDTH	LENGTH	ACRES	ACRES	ACRES	ACRES	ACRES	HOURS		(REMARKS)
TOTAL	22/3	24/2			53.8	20.6	28.9	4.4	0.0	0		RAVER - PAUL NO. 1, 500kv
24/2	60	450	263.5	390	2.4	2.4					R/LT	C, L & S Ponds - need to check, may no longer exist No Herbicide
24/2	450	1200	263.5	750	4.5		4.5				MS	C, L & S and stump treat or Machine Cut & chem treat
24/3	0	1100	263.5	1100	6.7		6.7				LT	C, L & S and stump treat or Machine Cut & chem treat
24/4	0	340	263.5	340	2.1		2.1				LT	C, L & S and stump treat or Machine Cut & chem treat
24/4	340	867	263.5	527	3.2		skip				LT	T&B Agreement, T. Gale Well at 24/4 +500
24/5	0	90	263.5	90	0.5		skip				LT	T&B Agreement, T. Gale
24/5	90	250	263.5	160	1.0		1.0				LT	C, L & S and stump treat or Machine Cut & chem treat See Notes No Herbicide
24/5	250	925	263.5	675	4.1	2.6	1.5				R/LT	C, L & S Ponds - need to check, may no longer exist
24/5	925	1143	263.5	218	1.3		1.3				LT	C, L & S and stump treat or Machine Cut & chem treat
25/1	0	360	263.5	360	2.2		2.2				LT	C, L & S and stump treat or Machine Cut & chem treat
25/1	360	740	263.5	380	2.3	2.3					R-T&E/SS	C, L & S Riparian - T&E, Voight Creek No Herbicide
25/1	740	880	263.5	140	0.8			0.8			STC	Select Tree Cut Riparian - T&E, Voight Creek No Herbicide
25/1	880	1280	263.5	400	2.4	2.4		1.1			R-T&E/SS	C, L & S Riparian - T&E, Voight Creek No Herbicide
25/1	1280	1646	263.5	366	2.2		2.2				MS-SS	C, L & S and stump treat or Machine Cut & chem treat
25/2	0	600	263.5	600	3.6		3.6				MS-SS	C, L & S and stump treat or Machine Cut & chem treat
25/2	600	1030	263.5	430	2.6	2.6					R/LT	C, L & S Riparian - wetland No Herbicide
25/2	1030	1057	263.5	27	0.2		0.2				MS	C, L & S and stump treat or Machine Cut & chem treat
25/3	0	580	272.5	580	3.6		3.6				MS	C, L & S and stump treat or Machine Cut & chem treat
25/3	580	1320	272.5	740	4.6	3.4	1.2				R/LT	C, L & S Riparian - wetland No Herbicide
25/3	1320	1652	272.5	332	2.1		2.1				MS-SS	C, L & S and stump treat or Machine Cut & chem treat
TOTAL	FOR	PAGE	1 to 3		106.2	36.3	61.1	6.3	0.0	0		

NOTES: 24/5 + 250 to 925 - see Plan & Profile for area that can be stump treated, South side of ROW, about 1.5 ac.

LOCATION			(1)	(2)	(3)	C, L & S	C & S	STC	MACH.	NO.	ZONE	CONTROL PRESCRIPTION
STR. NO.	FROM	TO	WIDTH	LENGTH	ACRES	ACRES	ACRES	ACRES	ACRES	HOURS		(REMARKS)
TOTAL	22/3	25/3			106.2	36.3	61.1	6.3	0.0	0		RAVER - PAUL NO. 1, 500kv
25/4	0	450	272.5	450	2.8		2.8				MS-SS	C, L & S and stump treat or Machine Cut & chem treat
25/4	450	675	272.5	225	1.4	1.4					R/LT	C, L & S Riparian - wetland No Herbicide
25/4	675	958	272.5	283	1.8		1.8				MS-SS	C, L & S and stump treat or Machine Cut & chem treat
26/1	0	200	272.5	200	1.3		1.3				MS	C, L & S and stump treat or Machine Cut & chem treat
26/1	200	690	272.5	490	3.1	3.1					R/MS-SS	C, L & S Riparian- intermittent streams, check for water before using herbicides
26/1	690	883	272.5	193	1.2		1.2				MS	C, L & S and stump treat or Machine Cut & chem treat
26/2	0	694	272.5	694	4.3		4.3				MS	C, L & S and stump treat or Machine Cut & chem treat
26/3	0	50	272.5	50	0.3		0.3				LT	C, L & S and stump treat or Machine Cut & chem treat
26/3	50	330	272.5	280	1.8		1.8				SS	C, L & S and stump treat
26/3	330	730	272.5	400	2.5	0.7	1.8				LT	C, L & S and stump treat or Machine Cut & chem treat See riparian area See Notes
26/3	730	1398	272.5	668	4.2		4.2				MS	C, L & S and stump treat or Machine Cut & chem treat
26/4	0	240	272.5	240	1.5		1.5				MS	C, L & S and stump treat or Machine Cut & chem treat
26/4	240	1140	272.5	900	5.6	5.6					R/MS-SS	C, L & S Riparian - wetlands and Coplar Creek See Notes No Herbicide
26/4	1140	1798	272.5	658	4.1		4.1				SS	C, L & S and stump treat See Notes
27/1	0	1150	272.5	1150	7.2		7.2				SS	C, L & S and stump treat See Notes
27/2	0	1130	272.5	1130	7.1		7.1				MS-SS	C, L & S and stump treat or Machine Cut & chem treat
27/3	0	730	272.5	730	4.6		4.6				MS-SS	C, L & S and stump treat or Machine Cut & chem treat
27/4	0	575	272.5	575	3.6		3.6				MS-SS	C, L & S and stump treat or Machine Cut & chem treat
27/4	575	775	272.5	200	1.3	1.3					R/MS	C, L & S Riparian - wetlands and creek No Herbicide
27/4	775	1617	272.5	842	5.3		5.3				MS	C, L & S and stump treat or Machine Cut & chem treat
27/5	0	870	272.5	870	5.4		5.4				MS	C, L & S and stump treat or Machine Cut & chem treat

TOTAL	FOR	PAGE	1 to 4		176.5	48.4	119.4	6.3	0.0	0		
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NOTES: 26/3, 330 to 730 - See plan & profile for location of springs (2) approximately 0.7 acres of NO HERBICIDE

26/4 + 520 to 27/1 + 360 to 730 - Sensitive landowner, G. C. Stillman (588-4931) call before cutting or using herbicides.

LOCATION			(1)	(2)	(3)	C, L & S	C & S	STC	MACH.	NO.	ZONE	CONTROL PRESCRIPTION
STR. NO.	FROM	TO	WIDTH	LENGTH	ACRES	ACRES	ACRES	ACRES	ACRES	HOURS		(REMARKS)
TOTAL	22/3	27/5			176.5	48.4	119.4	6.3	0.0	0		RAVER - PAUL NO. 1, 500kv
28/1	0	60	262.5	60	0.4		0.4				MS-SS	C, L & S and stump treat or Machine Cut & chem treat
28/1	60	180	262.5	120	0.7	0.7					R/MS	C, L & S Riparian - spring No Herbicide
28/1	180	525	262.5	345	2.1		2.1				MS	C, L & S and stump treat or Machine Cut & chem treat
28/1	525	800	262.5	275	1.7		1.7				SS	C, L & S and stump treat
28/1	800	1010	262.5	210	1.3	1.3					R/SS	C, L & S Riparian - creek No Herbicide
28/1	1010	1134	262.5	124	0.7		0.7				SS	C, L & S and stump treat
28/2	0	610	262.5	610	3.7		3.7				MS-SS	C, L & S and stump treat or Machine Cut & chem treat
28/2	610	1140	262.5	530	3.2	0.7	2.5				LT	C, L & S and stump treat or Machine Cut & chem treat WELL 28/2 +920 See Notes
28/2	1140	1379	262.5	239	1.4	1.0	0.4				R/LT	C, L & S Riparian - wetland See Notes
28/3	0	410	262.5	410	2.5	1.8	0.7				R/LT	C, L & S Riparian - wetland See Notes
28/3	410	720	262.5	310	1.9		1.9				MS-SS	C, L & S and stump treat or Machine Cut & chem treat
28/3	720	1030	262.5	310	1.9	1.9					R/MS-SS	C, L & S Riparian - creek No Herbicide
28/3	1030	1112	262.5	82	0.5		0.5				MS-SS	C, L & S and stump treat or Machine Cut & chem treat
28/4	0	240	262.5	240	1.4		1.4				SS	C, L & S and stump treat
28/4	240	820	262.5	580	3.5	3.5	3.5				R/LT	C, L & S Riparian - creek No Herbicide
28/4	820	1388	262.5	568	3.4		7.1				MS-SS	C, L & S and stump treat or Machine Cut & chem treat
28/5	0	554	262.5	554	3.3		3.3				MS	C, L & S and stump treat or Machine Cut & chem treat Fiske Rd. 28/5 + 120
29/1	0	70	262.5	70	0.4		0.4				MS	C, L & S and stump treat or Machine Cut & chem treat
29/1	70	230	262.5	160	1.0		1.0				MS-SS	C, L & S and stump treat or Machine Cut & chem treat
29/1	230	340	262.5	110	0.7	0.7					R/STC	Select Tree Cut Riparian- intermittent creek, check for water before using herbicides

29/1	340	750	262.5	410	2.5		2.5				MS-SS	C, L & S and stump treat or Machine Cut & chem treat
TOTAL	FOR	PAGE	1 to 5		214.5	60.0	153.2	6.3	0.0	0		

NOTES: 28/2 + 920 - See plan & profile for location of well approximately 0.7 acres of NO HERBICIDE buffer (100' radius).

28/2 + 1140 to 28/3 + 410 - See plan & profile for location of wetlands, there ia approximately 1.1 acres that can be chemically treated.

LOCATION			(1)	(2)	(3)	C, L & S	C & S	STC	MACH.	NO.	ZONE	CONTROL PRESCRIPTION
STR. NO.	FROM	TO	WIDTH	LENGTH	ACRES	ACRES	ACRES	ACRES	ACRES	HOURS		(REMARKS)
TOTAL	22/3	29/1			214.5	60.0	153.2	6.3	0.0	0		RAVER - PAUL NO. 1, 500kv
29/1	750	850	262.5	100	0.6	0.6					R/SS	C, L & S Riparian- intermittent creek, check for water before using herbicides
29/1	850	1286	262.5	436	2.6		2.6				MS-SS	C, L & S and stump treat or Machine Cut & chem treat
29/2	0	580	262.5	580	3.5		3.5				MS-SS	C, L & S and stump treat or Machine Cut & chem treat
29/2	580	680	262.5	100	0.6	0.6					R/MS-SS	C, L & S Riparian- intermittent creek, check for water before using herbicides
29/2	680	970	262.5	290	1.7		1.7				MS-SS	C, L & S and stump treat or Machine Cut & chem treat
29/2	970	1070	262.5	100	0.6	0.6					R/MS-SS	C, L & S Riparian- intermittent creek, check for water before using herbicides
29/2	1070	1485	262.5	415	2.7		2.5				MS	C, L & S and stump treat or Machine Cut & chem treat
29/3	0	190	280.0	190	1.2		1.2				MS	C, L & S and stump treat or Machine Cut & chem treat
19/3	190	250	280.0	60	0.4	0.4					R/SS	C, L & S Riparian - T&E stream, Puyallup River No Herbicide
19/3	250	625	280.0	375	2.4			2.4			R-STC	Select Tree Cut Riparian - T&E stream, Puyallup River No Herbicide
				0	0.0							
				0	0.0							
				0	0.0							
				0	0.0							
				0	0.0							
				0	0.0							
				0	0.0							
				0	0.0							
				0	0.0							

