1	2	3	4
Date Range	***Region***	***FPA/N***	***FPA Acres***
BFW Less than 5'			
2000-2009	PC	2913791	29
2000-2009	PC	2914420	72
2000-2009	PC	2916646	12
	PC	2919967	32

3/31/2009 - 3/30/2010		2919967	32
		2919967	32
		2920529	9.5
		2922903	75
		2922903	75
3/31/2011 - 3/30 2012	PC	2923238	21.8
		2923238	21.8
3/31/2010 - 3/30/2011	PC	2920779	4.5
	PC	2924438	75

3/31/2012 - 3/30/2013		2924438	75
		2924438	75
3/31/2013- 3/31/2014	PC	2928173	26
		2928173	26
		2928173	26
3/31/2011 - 3/30 2012	PC	2923674	30
		2924632	48
3/31/2013- 3/31/2014	PC	2926261	25

		2926296	60
3/31/2013- 3/31/2014	PC	2927297	24
		2927363	20
4/1/2014- 3/31/2015	PC	2929296	3
3/31/2010 - 3/30/2011	PC	2921581	63
		2921688	8

3/31/2010 - 3/30/2011	PC	2922130	10
		2922130	10
3/31/2011 - 3/30 2012	PC	2923358	10
2000-2009	PC	2917867	23
2000-2009	PC	2917867	23
2000-2009	PC	2917867	23
2000-2009	PC	2917867	23
BFW Between 5' and 15'			

2000-2009	PC	2913430	27
2000-2009	PC	2913977	7.5
2000-2009	PC	2914420	72
2000-2009	PC	29150998	14
2000-2009	PC	2915912	21
2000-2009	PC	2917977	33
2000-2009	PC	2914004	25

2000-2009	PC	2914004	25
2000-2009	PC	2914004	25
2000-2009	PC	2917138	19
2000-2009	PC	2918334	6
2000-2009	PC	2905194	32
2000-2009	PC	2910451	45
2000-2009	PC	2914554	16

2000-2009	PC	2914554	16
3/31/2009 - 3/30/2010	PC	2920007	10
		2920007	10
3/31/2010 - 3/30/2011	PC	2921115	8
3/31/2011 - 3/30 2012	PC	2922272	32
3/31/2011 - 3/30 2012	PC	2922446	15

3/31/2011 - 3/30 2012	PC	2922943	33
3/31/2011 - 3/30 2012	PC	2922999	38
3/31/2011 - 3/30 2012	PC	2924151	330
		2924632	48
		2924632	48
3/31/2012 - 3/30/2013	PC	2925110	49
3/31/2012 - 3/30/2013	PC	2925178	30
3/31/2012 - 3/30/2013	PC	2925552	119
		2926031	5

3/31/2013-3/31/2014	PC	2926296	60
		2926296	60
		2926296	60
3/31/2013-3/31/2014	PC	2926833	40
3/31/2013-3/31/2014	PC	2927166	76
3/31/2013-3/31/2014	PC	2927815	330
4/1/2014-3/31/2015	PC	2929274	24
		2921688	8

3/31/2012 - 3/30/2013	PC	2924414	20
		2924414	20
		2924414	20
3/31/2013-3/31/2014	PC	2926228	35
3/31/2013-3/31/2014	PC	2928230	29
		2928230	29

2000-2009	PC	2910803	22
BFW Greater than 15'			
3/31/2013-3/31/2014	PC	2926343	106
2000-2009	PC	2918334	6
2000-2009	PC	2910451	45
2000-2009	PC	2910451	45
2000-2009	PC	2914554	16
3/31/2009 - 3/30/2010	PC	2920367	3

3/31/2009 - 3/30/2010	PC	2920384	26
3/31/2010 - 3/30/2011	PC	2921117	50
		2921117	50
3/31/2010 - 3/30/2011	PC	2921856	9
		2921856	9
	PC	2922903	75

3/31/2011 - 3/30 2012		2922903	75
3/31/2011 - 3/30 2012	PC	2922333	75
		2922333	75

		2922333	75
		2922333	75
3/31/2011 - 3/30 2012	PC	2922725	9
3/31/2011 - 3/30 2012	PC	2922341	24
3/31/2011 - 3/30 2012	PC	2922831	100
		2922903	75

3/31/2012 - 3/30/2013	PC	2925859	19
3/31/2012 - 3/30/2013	PC	2926031	5
3/31/2012 - 3/30/2013	PC	2924632	48
		2926343	106
3/31/2010 - 3/30/2011	PC	2921626	22.5

3/31/2010 - 3/30/2011	PC	2921688	8
		2921688	8
3/31/2013-3/31/2014	PC	2927363	20
Actual BFW Unknown			
2000-2009	PC	2910540	40
2000-2009	PC	2910540	40
3/31/2009 -	PC	2919916	15

3/30/2010		2919916	15
3/31/2009 - 3/30/2010	PC	2920441	30
3/31/2009 - 3/30/2010	PC	2920529	9.5
3/31/2011 - 3/30 2012	PC	2923962	9
3/31/2012 - 3/30/2013	PC	2924971	15
3/31/2010 - 3/30/2011	PC	2920944	14

3/31/2010 - 3/30/2011	PC	2922039	20
3/31/2010 - 3/30/2011	PC	2920810	3
		2922831	100
3/31/2011 - 3/30 2012	PC	2923622	45
2000-2009	PC	2916395	9
2000-2009	PC	2904550	16
2000-2009	PC	2904481	220
2000-2009	PC	2904820	30

2000-2009	PC	2910710	6
2000-2009	PC	2910003	74
2000-2009	PC	2910003	74
2000-2009	PC	2912464	10
2000-2009	PC	2510869	21
3/31/2012 - 3/30/2013	PC	2924471	62
3/31/2013- 3/31/2014	PC	2927582	9.8

5	6	7
Type of Alternate Plan: Thinning, Regeneration, Hardwood Conversion	***Water Type***	***Width of Stream***
HWC	F	2'
HWC	F	4'
HWC	F	4'
HWC	Type F	4'

HWC	Type F	4'
HWC	Type Np	2'
HWC	Type F	2.5'
HWC	Type F	3'
HWC	Type F	3'
HWC	Type F	3'
HWC	Type Np	2'
HWC	Type F	4'
HWC	Type F	4'

HWC	Type F	2'
HWC	Type Np	1'
HWC	Type F	4'
HWC	Type F	4'
HWC	Type Np	2'
HWC	Type F	3'
HWC	Type F	4'
HWC	Type F	3'

HWC	Type F	3'
HWC	Type F	3'
Thin	Type F	4'
Thin	Type F	2'
Thin	Type F	3'
Thin	Type Np	1.75'

Thin	Type F	4'
Thin	Type Np	1.5'
Thin	Type F	3'
Salvage	F	3'
Salvage	F	4'
Salvage	F	2'
Salvage	F	2'

HWC	F	15'
HWC	F	10'
HWC	F	5'
HWC	F	10'
HWC	F	10'
HWC	F	8'
HWC	F	8'

HWC	F	8'
HWC	F	11'
HWC	F	5'
HWC	F	15'
HWC	F	10'
HWC	F	5'
HWC	F	5'

HWC	F	5'
HWC	Type F	5'
HWC	Type F	5'
HWC	Type F	10'
HWC	Type F	6'
HWC	Type S	15'

HWC	Type F	12'
HWC	Type F	9'
HWC	Type F	12'
HWC	Type F	6'
HWC	Type F	5'
HWC	Type F	5'
HWC	Type F	12'
HWC	Type F	12'
HWC	Type F	5'

HWC	Type F	11'
HWC	Type F	7'
HWC	Type F	7'
HWC	Type F	11'
HWC	Type F	13'
HWC	Type F	6'
HWC	Type F	5'
Thin	Type F	10'

Thin	Type F	10'
Thin	Type F	10'
Thin	Type F	5'
Thin	Type F	5'
Thin	Type F	8'
Thin	Type F	6'

Thin	F	10'
HWC	Type F	20'
HWC	S	50'
HWC	S	100'
HWC	F	20'
HWC	S	20'
HWC	Type F	100'

HWC	Type F	100'
HWC	Type F	20'
HWC	Type F	30'
HWC	Type S	200'
HWC	Type F	20'
HWC	Type S	60'

HWC	Type S	60'
HWC	Type S	60'
HWC	Type S	60'

HWC	Type S	60'
HWC	Type S	60'
HWC	Type S	50'
HWC	Type S	100'
HWC	Type S	180'
HWC	Type S	60'

HWC	Type F	55'
HWC	Type F	30'
HWC	Type S	100'
HWC	Type F	30'
Thin	Type F	20'

Thin	Type S	75'
Thin	Type F	40'
Thin	Type F	20'
Thin	S	>10'
Thin	F	>10'
HWC	Type S	>10'

HWC	Type F	>10'
HWC	Type F	>10'
HWC	Type F	>10'
HWC	Type F	>10'
HWC	Type F wetland	>10'
HWC	Type S	>10'

Thin	Type S	>10'
HWC	Type F	<10'
HWC	Type F	<10'
Thin	Type F	<10'
HWC	F	<10'
HWC	F	<10'
Thin	F	3'
HWC	F	?

Thin	S	?
HWC	F	?
HWC	F	?
HWC	Pond	Pond
HWC	F	?
Thin	Type F wetlands	N/A
Thin	Wetlands	N/A

8	9
Length of RMZ affected for each Stream Type (feet)	***Total RMZ Width for Each Stream Type (feet)***
1320'	70'
2640'	75'
750'	70'
1,100'	170'

1,700'	170'
350'	50'
200'	29'
400'	90'
500'	200'
595'	?
490'	?
345'	170'
1,200'	40'

2,000'	40'
400'	30'
1,100'	170'
1,700'	170'
350'	30'
900'	170'
1,200'	170'
850'	170'

800'	30'
1,100'	170'
900'	145'
PIP	70'
1,600'	140'
1,000'	50'

1016'	140'
100'	50'
1,000'	118'
525'	140'
525'	140'
525'	140'
525'	140'

?	170'
1200	75'
2640'	75'
1100'	170'
2200'	170'
1900'	170'
400'	170'

400'	90'
400'	90'
1000'	25'
100'	170'
2050'	200'
1,500	170'
1,860	170'

1.86	170'
400'	170'
400'	170'
?	170'
1,200'	70'
800'	170'

?	35'
1,500'	170'
?	170'
2,400'	170'
500'	170'
500'	30'
1,700'	90'
700'	170'
170'	170'

2,000'	30'
700'	30'
700'	30'
1,200'	170'
2,000	30'
600'	170'
900'	170'
500'	128'

1,000	170'
1,000	170'
1,200	170'
700'	100'
2,600'	30'
850'	30'

1,460'	140'
1,600'	170'
400'	170'
3,500'	140'
1,200	170'
1,860	170'
300'	170'

800'	140'
200'	170'
200'	170'
2,500'	70'
500'	50'
1,000'	90'

1,000'	200'
1,400'	200'
1,500'	200'

800'	90'
800'	90'
1,500'	170'
850'	50'
6,000'	170'
800'	200'

350'

1,000'	140'
300'	170'
700'	170'
600'	170'
350'	50'

1,500'	200'
660'	128'
1,500'	145'
200'	200'
1300'	200'
450'	140'

450'	90'
?	140'
460'	86'
326'	170'
1,350'	170'
1,400'	90'

700'	170'
?	150'
5,400'	170'
100'	0'
1000'	170'
1180'	170'
7,000'	0
3,050'	170'

?	170'
1,287'	?
1,287'	?
80'	?
2,425'	?
?	110'
750'	?

PC REGION ALTERNATE F

10	11
No Cut Buffer Width* for each Stream Type (feet)	***Inner zone width for each stream type (feet)***
25'	45'
50'	25'
50'	20'
113'	57'

30'	140'
30'	20'
20'	9'
30'	60'
30'	170'
10'	?
10'	?
50'	120'
40'	0'

40'	0'
30'	0'
30'	140'
113'	57'
30'	o'
50'	120'
30'	140'
30'	140'

30'	0'
30'	140'
20'	125'
70'	0'
70'	70'
20'	30'

50'	90'
50'	0'
50'	68'
50'	90'
50'	90'
30'	110'
30'	110'

50'	120'
25'	50'
30'	45'
50'	120'
70'	100'
50'	120'
50'	120'

30'	60'
30'	60'
?	?
50'	120'
50'	150'
25'	145'
25'	145'

25'	145'
30'	140'
30'	140'
70'	100'
35'	35'
30'	140'

35'	0'
50'	120'
25'	145'
30'	140'
30'	140'
30'	0'
30'	60'
30'	140'
50'	120'

30'	0'
30'	0'
30'	0'
50'	120'
30'	0'
30'	140'
30'	140'
40'	88'

170'	0'
25'	146
0'	0'
50'	50'
30'	0'
30'	0'

14'	126'
60'	110'
50'	120'
30'	110'
25'	145'
50'	120'
0'	170'

50'	90'
50'	120'
50'	120'
60'	10'
35'	15'
30'	60'

30'	170'
30'	170'
30'	170'

30'	60'
30'	60'
30'	140'
50'	0'
145''	25'
30'	170'

50'	90'
50'	120'
30'	140'
75'	95'
50'	0'

40'	160'
40'	88'
125'	20'
14'	186'
?	?
50'	90'

50'	40'
25'	115'
45'	41'
50'	120'
25'	145'
25'	65'

80'	90'
70'	80'
135'	35'
0'	0'
30'-65'	110'-135'
50'	120'
0	0
50'	120'

50'	120'
30'	?
30'	?
40'	?
10'	?
100'	10'
25'	?

12	13	14
Harvest on one of both sides of stream	***Site Class***	***Activity in Inner Zone***
both	II	Remove hardwoods to 25' buffer
Both	II	Remove hardwoods to 50' buffer
Both	II	
Both	II	Remove hardwoods to 113' buffer

Both	II	Remove hardwoods to 30' buffer
One	II	Remove hardwoods to 30' buffer
Both	?	Remove hardwoods to 20' buffer
Both	V	Remove hardwoods to 30' buffer.
Both	I	Remove hardwoods to 30' buffer.
200' One 395' Both	II	Remove hardwoods to 10' buffer.
Both	II	Remove hardwoods to 10' buffer.
o	II	Remove hardwoods to 50 'buffer
Both	II	Remove hardwoods to 40' buffer.

?	II	Remove hardwoods to 40' buffer.
?	II	Remove hardwoods to 30' buffer.
Both	II	Remove hardwoods to 30' buffer.
Both	II	Remove hardwoods to 113' buffer.
One	II	Remove hardwoods to 30' buffer.
Both	II	Remove hardwoods to 50' buffer.
Both	II	Remove hardwoods to 30' buffer.
Both	II	Remove hardwoods to 30' buffer.

Both	II	Remove hardwoods to 30' buffer.
Both	II	Remove hardwoods to 30' buffer.
Both	I	Harvest 11 trees in inner zone for landing.
One	II	Thin to 70' buffer.
One	III	Thin to 109 TPA to 70' buffer
Both	II	Thin to 190 TPA to 20' buffer

Both	III	Rechannelize stream - maintain 50' buffer
Both	III	Maintain 50' buffer
One	II	Remove 11% of understory trees -35 trees in the RMZ.
?	III	Salvge trees to 50' buffer
?	III	Salvge trees to 50' buffer
?	III	Salvge trees to 30' buffer
?	III	Salvge trees to 30' buffer

One	II	Remove hardwoods to 50' buffer
One	II	Remove hardwoods to 25' buffer
both	II	Remove hardwoods to 30' buffer
One	II	Remove hardwoods to 50' buffer
Both	II	Remove hardwoods to 70' buffer
Both	II	Remove hardwoods to 50' buffer
Both	II	Remove hardwoods to 50" buffer

Both	V	Remove hardwoods to 30' buffer
Both	V	Remove hardwoods to 30' buffer
Both	V	
?	II	Remove hardwoods to 50' buffer
?	I	Remove hardwoods to 50' buffer
both	II	Remove hardwoods to 25' buffer
?	II	Remove hardwoods to 25' buffer

?	II	Remove hardwoods to 25' buffer
?	II	Remove hardwoods to 30' buffer
?	II	Remove hardwoods to 30' buffer
One	II	Remove hardwoods to 70' buffer
Both	II	Remove hardwoods to 35' buffer.
One	II	Remove hardwoods to 30' buffer.

Both	II	Remove hardwoods to 35' buffer.
Both	II	Remove hardwoods to 50' buffer.
Both	II	Remove hardwoods to 25' buffer.
Both	II	Remove hardwoods to 30' buffer.
Both	II	Remove hardwoods to 30' buffer.
One	II	Remove hardwoods to 30' buffer.
Both	V	Remove hardwoods to 30' buffer.
One	II	Remove hardwoods to 30' buffer.
One	II	

Both	II	Remove hardwoods to 30' buffer.
Both	II	Remove hardwoods to 30' buffer.
Both	II	Remove hardwoods to 30' buffer.
One	II	Remove hardwoods to 50' buffer
One	I	Remove hardwoods to 30' buffer.
Both	II	Remove hardwoods to 30' buffer.
One	II	Remove hardwoods to 30' buffer.
Both	II	Thin to 190 TPA to 40' buffer

One	II	Harvest of over mature timber.
One		Harvest of over mature timber to 25' buffer
One		Harvest over mature timber to 0' buffer
Both	II	Harvest most dominant fir & cedar. Retain hardwoods
Both	II	Thin smaller diameter trees, economic gain.
Both	II	Thin to 125-275 TPA to 30' buffer

?	III	?
Both	II	Remove hardwoods to 60' buffer.
?	II	Remove hardwoods to 50' buffer
both	III	Remove hardwoods to 30' buffer
both	II	Remove hardwoods to 25' buffer
?	II	Remove hardwwods to 50' buffer
One	II	Remove old dying and leaning hardwoods to 0' buffer

One	III	Remove hardwoods to 50' buffer
One	II	Remove hardwoods to 50'buffer
One	II	Remove hardwoods to 50' buffer
One	II	Remove hardwoods to 60'buffer
One	V	Remove hardwoods to 35' buffer
One	V	Remove hardwoods to 30' buffer.

One	I	Remove hardwoods to 30' buffer.
One	I	Remove hardwoods & salvage log to 30' buffer. Harvest in wetland.
Both	V	Remove hardwoods & salvage log to 30' buffer. Harvest in wetland.

One	V	Remove hardwoods & salvage log to 30' buffer. Harvest in wetland.
One	V	Remove hardwoods & salvage log to 30' buffer. Harvest in wetland.
Both	II	Remove hardwoods to 30' buffer.
One	II	Remove hardwoods to 50' buffer.
One	II	Remove hardwoods to 145' buffer.
Both	I	Remove hardwoods to 30' buffer.

One	III	Remove hardwoods & salvage log to 50' buffer. Salvage within wetland buffer.
One	II	Remove hardwoods to 50' buffer.
One	II	Remove hardwoods to 30' buffer.
One		Remove hardwoods to 75' buffer
One	II	Remove 21 trees for road location

One	II	Thin to 190 TPA to 40' buffer
One	II	Thin to 190 TPA to 40' buffer
One	I	Harvest 11 trees in inner zone for landing.
both	I	Thin to 150-200 TPA
both	I	Thin to 150-200 TPA
Both	III	Remove hardwoods to 50' buffer

Both	V	Remove hardwoods t0 50' buffer
Both	III	Remove hardwoods to 25' buffer
300' One 160' Both	?	Remove hardwoods to 45' buffer
Both	II	Remove hardwoods to 50' buffer.
One	II	Remove hardwoods to 25' buffer.
250' One 1150' Both	V	Remove hardwoods to 25' buffer

One	II	Thin to 80' buffer
o	II	Remove hardwoods to 70' buffer
One	II	remove hardwoods to 135' buffer.
Both	III	Replace mixed species stand with 100% Doug Fir.
One	II	Remove hardwoods to 30'-65' buffer
One	II	Remove hardwoods to 50' buffer
both	II	Thin to last row of trees along stream
both	II	Remove hardwoods to 50' buffer

One	II	Thin to 50 TPA
both	III	Remove hardwoods to 30' buffer
both	III	Remove hardwoods to 30' buffer
One	?	Remove hardwoods to 40' buffer
?	II	Remove hardwoods to 10' buffer
N/A	IV	Habitat restoration around wetlands - 100' buffer
One	?	Thin to 75 tpa.

15	16	17 ID Team	
Removal Method	***Number of Core ZoneTrees Removed***	***In FPARS***	***In Region File***
Shovel	0	Yes - ICN	
Tractor	0	Yes - ICN	
Ground		Yes-ICN	
shovel/skidder		Yes	Yes

shovel/skidder		Yes	Yes
shovel/skidder		Yes	Yes
#REF!		No	No
ground		Yes	Yes
ground		Yes	Yes
shovel		No	Yes
shovel			
dozer		Yes	Yes
shovel/rubber tired skidder		Yes	Yes

shovel/rubber tired skidder		Yes	Yes
shovel/rubber tired skidder		Yes	Yes
shovel/skidder		Yes	Yes
ground		Yes	Yes
ground		Yes	Yes
ground		Yes	Yes

		Yes	Yes
ground		Yes	Yes
		No	No
shovel		ID Team identified but no concurrence documented	No
leading end suspension, shovel		Yes	Yes
processor/forwarder and skidder		Yes	

tracked shovel/loader		SEPA	Yes
tracked shovel/loader			
tracked skidder		Yes	Yes
Ground	0	Yes	
Ground	0	Yes	
Ground	0	Yes	
Ground	0	Yes	

Rubber tired skidder	0	No	
Shovel	select hardwoods	Yes - ICN	
Tractor	0	Yes - ICN	
Rubber tired skidder	2	No	
Rubber tired skidder/Shovel	0	ICN# 00456	
Rubber tired skidder		Yes - ICN	
Shovel	0	Yes - ICN	

Shovel	0	Yes - ICN	
Shovel	0	Yes-ICN	
skidder/shovel		Yes-ICN	
Rubber tired skidder	0	Yes	
Ground based	0	Yes	
?	0	No	No
Skidder	0	Yes	

Skidder	0	Yes	
rubber tired skidder		Yes	Yes
rubber tired skidder		Yes	Yes
tracked skidder shovel		Yes	Yes
tracked skidder, cable		Yes	Yes
ground/cable		Yes	Yes

shovel, tracked skidder		Yes	Yes
ground		Yes	Yes
rubber tire skidder		Yes	Yes
ground		Yes	Yes
ground		Yes	Yes
rubber tired skidder/dozer		Yes	Yes
ground		Yes	Yes
ground		Yes	Yes

ground		Yes	Yes
		Yes	Yes
		Yes	Yes
rubber tired or tracked skidder, dozer, shovel, leading end suspension		Yes	Yes
ground	?	No	No
rubber tired skidder		Yes	Yes
ground		Yes	Yes
processor/forwarder and skidder		Yes	

shovel		ID team noted but no documentation	No
shovel		ID team noted but no documentation	No
shovel		ID team noted but no documentation	No
skidder, cat, excavator		Yes	Yes
CTL processor, forwarder, hand fall, dozed with grapple, processor fall and dozer yard		Yes	Yes
		Yes	

Skidder	0	No	No
tractor, leading end suspension	?	Yes	Yes
Rubber tired skidder	0	Yes	
?	0	No	No
?	0	No	No
Skidder	0	Yes	
rubber tired skidder/shovel		Yes	Yes

shovel/skidder		Yes	Yes
tracked skidder		Yes	Yes
tracked skidder			
tracked skidder/shovel		Yes	Yes
tracked skidder/shovel		Yes	
ground		Yes	Yes

ground		Yes	Yes
ground		Yes	Yes
ground		Yes	

ground		Yes	
ground		Yes	
ground		Yes	Yes
tracked skidder/shovel		Yes	Yes
shovel		Yes	Yes
ground		Yes	Yes

dozer		Yes	Yes
shovel/track		Yes	Yes
ground		Yes	Yes
		Yes	Yes
shovel/track skidder		Yes	Yes

processor/forwarder and skidder		Yes	Yes
processor/forwarder and skidder		Yes	
shovel/tracked skidder		No	No
Skidder		No	
Skidder		No	
tracked skidder shovel		Yes	Yes

tracked skidder shovel		Yes	Yes
Shovel, cable		Yes	Yes
Rubber tired/tracked skidder; shovel; suspension skid rd.		No	No
skidder, dozer, shovel		Yes	Yes
shovel, rubber and track skidder		Yes	Yes
rubber tire skidder, dozer or shovel		Yes	Yes

shovel		Yes	Yes
skidder/shovel		Yes	Yes
shovel		Yes	
cable, shovel. Tracked skidder		Yes	Yes
Shovel Skidder	0	Yes - ICN	
Shovel tracked skidder	0	No	
Forwarder	?	Yes	
Feller buncher/skidder	?	No	

Cable	?	No	
Shovel	?	No	No
Shovel	?	No	No
Skidder	0	No	No
?	?	No	No
shovel/rubber tired skidder		USFWS & WDFW Assessme nt	Yes
shovel		No	No

18 Reforestation Plan		
Species Planted, Number	***Monitoring Plan Exists***	***Monitoring Components***
DF WRC WH	No	Monitor until free to grow
?	No	?
DF 300-400 TPA	No	None
Doug Fir, Red Cedar mix; 300 TPA; 2-0 or better	yes	Monitor planted stand monthly for 3 to 5 years, controlling all brush

Doug Fir, Red Cedar mix; 300 TPA; 2-0 or better	yes	Monitor planted stand monthly for 3 to 5 years, controlling all brush
Doug Fir, Red Cedar mix; 300 TPA; 2-0 or better	Yes	Monitor planted stand monthly for 3 to 5 years, controlling all brush
#REF!	No	
doug fir; 350/acre		
doug fir; 350/acre		
doug fir	no	
Doug fir	no	
Doug fir	No	

Doug fir	no	
Doug fir	no	
doug fir, western red cedar, 300/acre	no	
doug fir, 350/acre	no	
doug fir, western red cedar; 350/acre	No	
doug fir, 350/acre	no	

doug fir, 350/acre		
doug fir	no	
doug fir, 360/acre	no	Written report to DNR each Nov. for 5 years after planting.
Doug fir, red cedar	no	

western red cedar, doug fir, red osier dogwood, snowberry, willow	yes	No documentation
none	no	
DF	No	None
DF	No	None
DF	No	None
DF	No	None

DF	No	Monitor until free to grow
DF WRC	No	Monitor until free to grow
?	No	?
DF, shade tolerant conifer	No	Inspect annually to assure 150 TPA free to grow
DF, WRC at 360 TPA	No	Inspect annually to assure 150 TPA free to grow
DF WRC Spruce	No	None
DF	No	?

DF	No	?
DF	No	?
Natural Regeneration	No	None
Conifer	No	Maintain seedlings until above competing vegetation
200 WH, 100 Spruce /acre	No	Vegetation management
Interplant if stocking goes below 350 TPA	No	Tubing, brish control
Df	No	?

DF	No	?
Doug fir, Cedar	no	
Doug fir, Cedar	No	
Doug fir 350 TPA	no	
Doug fir	no	
doug fir; 350/acre	no	

doug fir, 400/acre	no	
doug fir, 350/acre	no	
doug fir, red alder, red cedar; 400/acre	No	
doug fir, western red cedar; 350/acre	No	
doug fir, western red cedar; 350/acre	No	
doug fir, western red cedar	No	
doug fir; 350/acre	No	
	No	

doug fir, 350/acre	no	
doug fir, 350/acre		
doug fir, 350/acre		
doug fir	no	
doug fir	no	
doug fir	no	
doug fir, oregon ash 350 TPA	no	

Doug fir, western red cedar	No	
Doug fir, western red cedar		
Doug fir, western red cedar		
doug fir, 350/acre	no	
doug fir	no	

none	No	none
doug fir, western red cedar	no	
Conifer	No	Maintain seedlings until above competing vegetation
Interplant if stocking goes below 350 TPA	No	Tubing, brish control
Interplant if stocking goes below 350 TPA	no	Tubing, brish control
DF	No	?
Doug fir	no	

Doug fir, white pine; 400/acre	yes	Monitor until trees established; herbicides applied to maple, red alder slashed
Doug fir	no	
Doug fir, western red cedar, western hemlock; 450/acre	no	
Doug fir, western red cedar, western hemlock; 450/acre	No	
doug fir; 350/acre	no	

doug fir; 350/acre		
doug fir; 350/acre	no	
doug fir; 350/acre		

doug fir; 350/acre		
doug fir; 350/acre		
doug fir; 350/acre	no	
doug fir; western red cedar; alder; hemlock; 400/acre	no	
Grand fir; 400/acre	no	
doug fir; 350/acre		

western red cedar	yes	Tree health and growth is recorded in the first quarter; Protective wire is repaired and adjusted through the second and third quarters; Competing vegetation is cut back with hand tools, usually twice during the growing season; Fertilizer and lime is applied in the first quarter; Replanting as needed in first quarter.
doug fir; 350/acre	no	
doug fir, western red cedar; 350/acre	No	
doug fir, western red cedar	no	
doug fir, alder, western red cedar	no	

doug fir	no	
None	No	None
None	No	None
Doug fir, Spruce, Red cedar	No	

Doug fir, Spruce, Red cedar	No	
Hemlock	no	
Doug fir; 200 to 300/acre	no	
doug and noble fir	No	
red cedar, western hemlock; 350/acre	No	
Doug and grand fir, possibly red cedar or spruce	no	Annual seedling inspection

Doug fir	no	
Doug fir. Red cedar; 500/acre	no	
Grand fir; 400/acre		
doug fir	no	
DF 300 TPA	No	Manage brush until tree are free to grow
300 TPA DF	No	Monitor annually to free to grow
None	No	None
Conifer 300 TPA	No	None

Conifer/hardwood planting	Yes	Monitor for 7 years until free to grow
DF 360 TPA	No	?
DF 360 TPA	No	?
?	No	?
DF	No	?
none	No	
western hemlock, doug fir	no	

19	20
Describe How Riparian Function Was Addressed	***Missing Information***
No effect of bank stability, leaf litter, nutrients, sediment filtering, increase in LWD with wood placement in stream, short term loss of shade.	
Minimal impact to bank stability, nutrient loading, leaf litter, and sediment filtering due to slope and width of buffers. Short term loss of shade and LWD, but improved long-term. Streambanks will be restored to prevent sedimentation.	
Short term loss of shade. Near term gain fo LWD due to blowdown. No impact on leaf litter, bank stability, or nutrient loading.	
Improve long term riparian function by removing and	

replacing dying alder. Remaining conifers will provide some shade, nutrients, sediment, LWD and stability until planted trees mature.	
#REF!	IDT
Sound, undamaged conifers left in the Inner Zone. Heavy leaning, sound, undamaged hardwood leaning toward the stream will be left. Long term improvement. Short term loss	RMZ Width
	RMZ Width
Current function good. Use of 50' no cut buffer, 50 to 113' leaving conifers for protection	
Long term increase in conifers, shade, debris, nutrients. Remove hazard trees along stream edge.	

Sound, undamaged conifers left in the Inner Zone. Heavy leaning, sound, undamaged hardwood leaning toward the stream will be left. Long term improvement. Short term loss of LWD & shade.	
Long term increase in conifers, shade, debris, nutrients.Short term loss of LWD & shade. Short term loss of shade.	
Short term loss of shade, long term improvement	
Addition of 15 to 20 conifer to wetland as LWD. No reference of effect on riparian functions. Input LWD into wetland.	

Long term benefit. Short term loss of LWD & shade	
Long term improvement.Documents all 5 riparian functions remain	
Sound, undamaged conifers left in the Inner Zone. Heavy leaning, sound, undamaged hardwood leaning toward the stream will be left. Long term improvement.Short term loss of LWD, leaf litter, & shade	IDT
	IDT
There should be no adverse effect on the current riparian conditions. The proposed buffer generally follows along the top of the slope break.	

Alders dying; Conifers will provide long term increase in LWD, shade, bank stability, sediment filtering, nutrients	
No impact on bank stability, sediment filtering, shade, or nutrient input. LWD will be recruited in near term.	
No impact on bank stability, sediment filtering, shade, or nutrient input. LWD will be recruited in near term.	
No impact on bank stability, sediment filtering, shade, or nutrient input. LWD will be recruited in near term.	
No impact on bank stability, sediment filtering, shade, or nutrient input. LWD will be recruited in near term.	

No effect on bank stability, sediment filtering, or leaf litter. Short term loss of LWD and shade.	IDT
No effect on bank stability, leaf litter, nutrients, swediment filtering, short term loss of LWD and shade.	
Bank stability and filtering minimally impacted	
No decrease in bank stability, shade, nutrient input or litter fall due to buffer. No decrease in LWD.	IDT
No impact on bank stability, nutrient litter fall, or sediment filtering due to buffer. LWD is adequate. There will be a Decrease in shade.	
No impact to bank stability, LWD, shade, and sediement filtering due to no cut buffer. Short term loss of litterfall and nutrients.	
No effect on bank stability, leaf litter, nutrient loading, sediment filtering because of no-cut buffer. Short-term loss of shade and LWD	

No effect on bank stability, leaf litter, nutrient loading, sediment filtering because of no-cut buffer. Short-term loss of shade and LWD	
No effect on bank stability, leaf litter, nutrient loading, sediment filtering because of no-cut buffer. Short-term loss of shade and LWD	
ICN states - Long and short term riaprian functions will be protected with very little, if any, negative impacts.	
No impact on bank stability shade, nutrient input or sediemnt filtering because of 50' buffer, long term increase in LWD,	
Short term loss of LWD, minimal change of other riparian functions.	
No impact on bank stability, LWD, leaf litter, nutrient loading, sediment filtering, or shade.	IDT
Minor loss of LWD and shade. No impact on bank stability, sediment filtering, leaf litter/nutrient loading.	

Minor loss of LWD and shade. No impact on bank stability, sediment filtering, leaf litter/nutrient loading.	
No short or long term impacts to bank stability, nutrients, sediment filtering, shade. Even aged management may increase woody debris through blow down	
A short term loss of shade and hardwood LWD recruitment, but would have long term gain from establishment of a conifer dominant stand. Litter fall and nutrient loading would not be significantly impacted as the majority of trees providing these functions would be left in the RMZ. Bank stability would be minimally impacted as the trees providing anchoring would be preserved	
Very little function now, long term improvement across the board	
Adding woody debris, leaving trees leaning toward stream, no cut buffer. All riparian functions maintained	

Establishing a healthy conifer community. Short term loss of shade.	
Leaving large maples, all conifers . No reference to effect on riparian functions. Entire unit is in CMZ.	
Establishing healthy conifer stand.Short term loss of shade	
Long term benefit	
Sound, undamaged conifers left in the Inner Zone. Heavy leaning, sound, undamaged hardwood leaning toward the stream will be left. Long term improvement.Short term loss of LWD & shade	

Long term benefit. All riparian functions maintained	
Long term benefit. No reference to effect on riparian buffers.	
Sound, undamaged conifers left in the Inner Zone. Heavy leaning, sound, undamaged hardwood leaning toward the stream will be left. Long term improvement.Short term loss of LWD & shade	
	IDT
No page 2&3 of Alternate Plan Form	
Prescription favors the development of multi-level forest canopy which will provide for increasing levels of shade, bank stability, etc with time.	

Alder leaning toward stream to be left, establishment of healthy conifer	RMZ Width
Minimal harvest (139 left, 35 removed). No impact on riparian functions.Short term loss of LWD & shade.	
Short term loss of shade, long term improvement.Short term shade reduction & nutrient input.	
Sound, undamaged conifers left in the Inner Zone. Heavy leaning, sound, undamaged hardwood leaning toward the stream will be left. Long term improvement.Short term loss of LWD & shade	

Minor loss of LWD and shade. No impact on bank stability, sediment filtering, leaf litter/nutrient loading.	IDT
No change to riparian functions.	
Increase in LWD, long term improvement in sediment filtering, stream stability. All riparian functions reduced for the short term	
	IDT
	IDT
Long term benefit. No loss of riparian functions	

Sound, undamaged conifers left in the Inner Zone. Heavy leaning, sound, undamaged hardwood leaning toward the stream will be left. Long term improvement. No LWD input, reduced shade short term.	
no harvest on slope, no short or long term changes. No change in 5 RMZ functions.	
No impact on bank stability, LWD, leaf litter, nutrient loading, sediment filtering, or shade.	
No impact on bank stability, LWD, leaf litter, nutrient loading, sediment filtering, or shade.	
Minor loss of LWD and shade. No impact on bank stability, sediment filtering, leaf litter/nutrient loading.	

Currently no large woody debris and little shade, bank stability is not a factor as this is a man made recreational lake and the terrain is near 0% slope. By planting Douglas fir with the intent not to harvest, but let grow to enhance the surrounding scenic area can only be seen as a major improvement.	
Replace small portions of the current hardwood dominant RMZ with a conifer dominant forest over a period of 25-30 years. Harvest areas limited to slopes under 65% and areas where bank stability is good. Leaf litter and nutrient loading would be minimally impacted as the majority of trees currently providing those functions would be left in the buffer.	

Road moved away from stream	
Leaving conifers within 128' of stream; all alder leaning toward stream and maples closest to stream. Short term loss of LWD & shade	
Leaving sound inner zone conifers and undamaged, hardwoods leaning toward stream. Short term loss of LWD & shade.	
Meander creation, restoration of creek	

No documentation	
Sound, undamaged conifers left in the Inner Zone. Heavy leaning, sound, undamaged hardwood leaning toward the stream will be left. Long term improvement.Short term loss of LWD & shade	

No effect on bank stability, leaf litter, sediment filtering. Short-term loss of LWD and shade.	
No impact on bank stability shade, nutrient input or sediemnt filtering because of 50' buffer, long term increase in LWD,	
Sound, undamaged conifers left in the Inner Zone. Heavy leaning, sound, undamaged hardwood leaning toward the stream will be left. Long term improvement.Short term loss of LWD, leaf litter, & shade	IDT
No effect on bank stability, leaf litter nutrient loading, or sediment filtering. short term loss of LWD and shade	IDT
No effect on bank stability, leaf litter nutrient loading, or sediment filtering. short term loss of LWD and shade	IDT
Employing large landowner hardwood prescriptions - 50'	

hardwood prescriptions - 50 no harvest buffer	
Planted hemlock will enhance riparian function as desired future condition. No-cut buffers will provide the necessary root mass for bank stability. Long term recruitment of conifer LWD. Short-term loss cancelled by additional windfall. Short-term loss of some hardwood shade, long term enhancement of shade	
20 acre exempt; Current function poor, plan anticipates a Long term improvement	IDT
Long term benefit, No reference of effect on riparian functions	
Current condition poor, Replacing dying alders with conifers will restore riparian function, brush left adjacent to stream	

70' no cut buffer meets all riparian function criteria	
No cut buffer will provide bank stability, litter fall and nutrients, and sediemnt filtering. No conifers near stream to laeve as LWD. Uncut trees in buffer will provide shade. Functions are protected because harvest is on north side of creek.	
Decrease in shade, leaf litter fall,	IDT
Bank stability and surface erosion will be protected. Short term reduction in litter fall.Short term impact on shade and nutrients.	Stream width
Short term impact on shade and LWD. No effect on bank stability or surface erosion because of harvest method.	Stream width

No effect on bank stability, LWD, leaf litter, sediment filtering because of 50' buffer. No effect on shade as this is the Columbia River.	Stream width
Short term loss of LWD and shade, minimal change of other riparian functions.	IDT
Short term loss of LWD and shade, minimal change of other riparian functions.	IDT
Short term impact to LWD and shade. No impact on bank stability, sediemnt filtering, leaf litter, nutrient input.	IDT
No impact to riparian functions except short term loss of shade.	IDT
Short term risks only. Short term loss of shade.	
	IDT

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