SITE INFORMATION

Site Identifier : CA1RB4
Site Name : Spring Tree
WRIA : 03.1411X
Region : NS
Trib to : Cascade R
River Mile : 2.40
River System : Cascade R
Legal Description : NW1/4S16T35NR11E
County : Skagit
Habitat Type : spring creek

Landowner Type : State
Landowner Name : DNR
Address :
Address2 :
City :
State :
Zipcode :
Phone :

Coordinates
East: 1,785,217.21 **North:** 1,165,382.34

Directions :
Take highway 20 to Marblemount and cross the Skagit on the Cascade River Road. Continue up road for 2.3 miles. Site is below a small clear cut and the springs are crossing the road.

Area Overview :
Site is a small spring fed overflow channel with a small amount of spawning habitat in the lower end and good rearing conditions.

Field Survey Information

Date : 12/13/91 **Observer :** Barkdull **Survey Type :** initial

HABITAT INFORMATION

Water Source: (x) Spring (x) Groundwater ( ) Surface runoff

Flow: ( ) Intermitent (x) Year-round

Estimated Flows (cfs): Lower end: 2
Upper end: 0

Water Temperature(C): Lower end:
Upper end:

Receiving Water Temperature (C):

Other Observations:

Site Area Measurements: ( )Indirect (x) Direct ( ) Combination
Widths: Channel:3 Ponds: Wetlands:
Depths: Channel:0.1 Ponds: Wetlands:
Total length (Includes ponds and wetlands): 259

Total existing habitat area (est. m2): 544

Spawning area:	Mainstem:40	Tribs:	Total:40
Impounded area:	Mainstem:0	Tribs:	Total:
Other rearing area:	Mainstem:544	Tribs:	Total:544
Unaccessible habitat:	Mainstem:	Tribs:	Total:

Spawning habitat conditions: ( ) None ( ) Poor (x) Fair ( ) Good ( ) Exellent

Describe spawning habitat: Substrate is mainly sand, some patch gravel in lower end.

Rearing habitat conditions: ( ) None ( ) Poor (x) Fair ( ) Good ( ) Exellent

Describe pond and other rearing habitat: Three springs which come down the hill providemost of the water to this site. The site is under an open canopy of large cedars and firs with limited insteam cover or understory.A small cascade through tree roots may prevent access some of the time above 300'.

Describe unaccessible habitat:

Wetland type: ( ) Bog ( ) Marsh ( ) Scrub-shrub ( ) Forested

Describe:

Flooding potential: ( ) Low (x) Medium ( ) High

Describe: It appeared that in the Nov. '90 flood water up to two feet deep ran down the swale upstream of the springs.

FISH INFORMATION

Site entry condition: ( ) Poor ( ) Fair (x) Good

Describe: Site enters at a side channel eddy.

Coho access and use: Juvenile ( ) Unknown ( ) None ( ) Poor (x) Fair ( ) Good
Adult (x) Unknown ( ) None ( ) Poor (x) Fair ( ) Good

Describe: Juvenile fish observed to 300', adult have been observed in the lower end in subsequent years.

Other species acces and use: ( ) Chum ( ) Pink ( ) Sockeye ( ) Chinook (x) Trout

Describe:Trout were observed on the day of the survey

ENHANCEMENT OPPORTUNITIES: None

Project type:

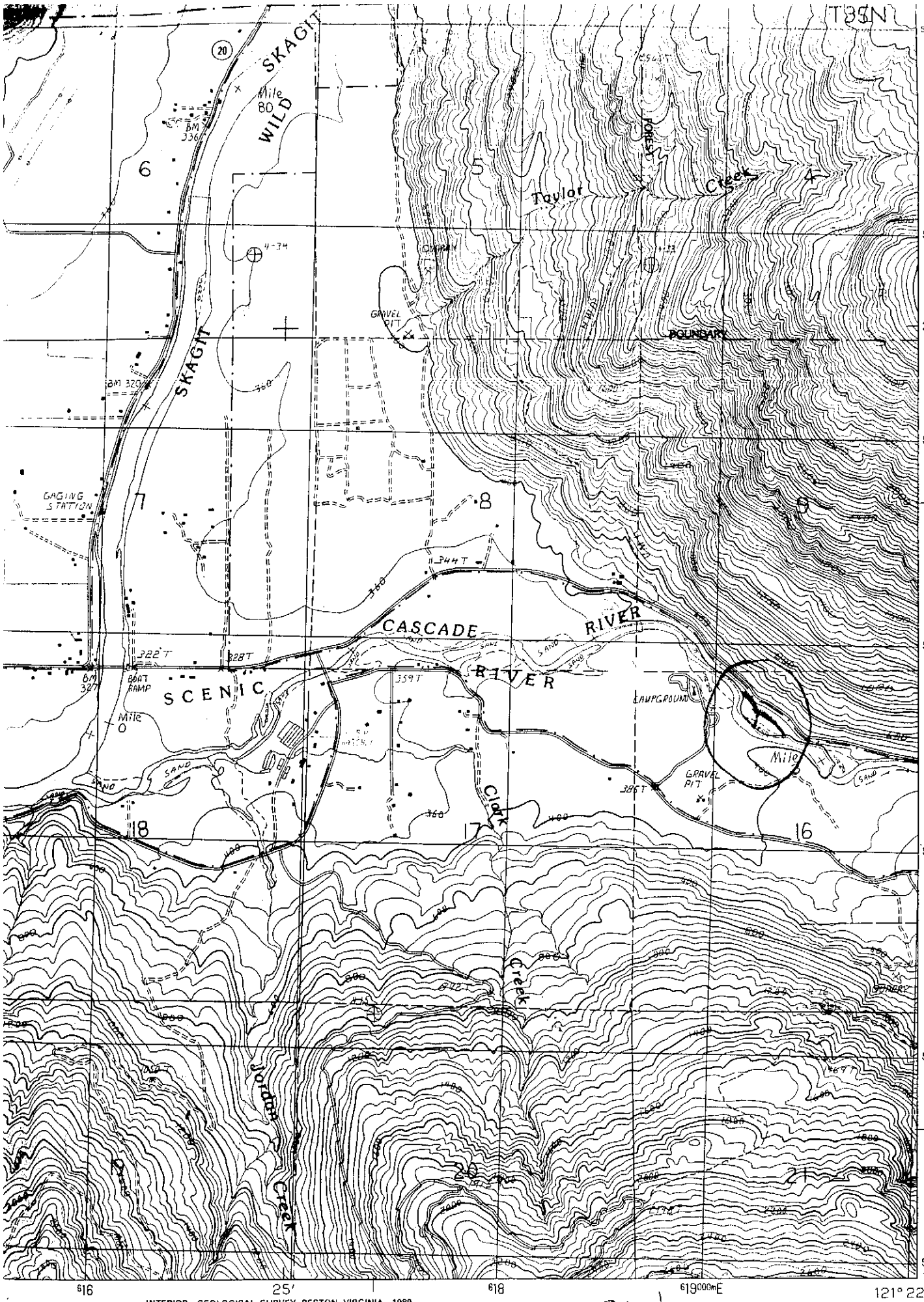
Equipment access:

ADDITIONAL COMMENTS:

ATTACHMENTS AVAILABLE

(x) Aerials (x) Sketch (x) Maps ( ) Spawning Surveys ( ) Juvenile Trapping
( ) Other References

The Spring tree
12/13/91 B. Barkdull



INTERIOR—GEOLOGICAL SURVEY, RESTON, VIRGINIA—1989

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Spring Tree

SITE IDENTIFIER:CA1RB4
LOCAL NAME:Spring Tree

NORTH SOUND OFF CHANNEL SITE INVENTORY DATA

RIVER:Cascade SURVEY DATE:12/13/91 OBSERVER:B. Barkdull

WRIA:None RIVER MILE/BANK LOCATION: RB 2.4

LEGAL LOCATION DESCRIPTION: 1/4 SECTION NW SEC.16 T.35N R.11E

CHANNEL TYPE: Springs and swale

	RIVER	LOW END	UPPER END	OTHER LOCATIONS
WATER TEMP:		None taken		
FLOW (CFS):		2 cfs	none	
WATER QUALITY:		Appears very good		

SUBSTRATE TYPE/SPAWNING GRAVEL ABUNDANCE & CONDITION:
Sand mainly, some patch gravel

COVER/LOD: Good cover, limited amount of LOD.

SITE DIMENSIONS: LENGTH: 850' wetted

WIDTH-WETTED:3-15'

DEPTH:0.5-2'

WATER SOURCE:Springs

FISH ACCESS/BLOCKAGES/CURRENT USE (BOTH ADULTS & JUV.):
Fish access at least to 300', maybe for full length, but none observed.

LANDOWNER:D.N.R

CHANNEL ENTRANCE CONDITIONS:Good, at side channel eddy.

FACTORS LIMITING PRODUCTION:
Lack of gravel, and possible lack of access above 300'

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LOCAL NAME:Spring Tree

NORTH SOUND OFF CHANNEL SITE INVENTORY DATA

UP-OUTMIGRANT TRAPPING CAPABILITY/OPPORTUNITY/DIFFICULTIES:
Only difficulty is access

BEAVER ACTIVITY:None

HEAVY EQUIPMENT ACCESS: None, very steep slope to river

DIRECTIONS TO SITE:
Take hwy 20 to Marble mount and cross the Skagit on the cascade river road. Continue up road for 2.3 miles. Site is below a small clear cut and the springs are crossing the road.

ENHANCEMENT OPPORTUNITIES AND COMMENT:
Because of the access problems there are not many options for this site. If access were possible it may be possible to create a spawning channel. There is good year around flow from three springs and with excavation groundwater may be possible. It appeared that in the Nov. '90 flood water up to two feet deep ran down the swale upstream of the springs

Site Identifier: _____

Local Name: The spring tree

River: _____ RM _____ LB _____ RB _____

WDF Intensive Off Channel Site Inventory

12/13/91

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Station Lineal Ft	Compass° BS/FS	Channel Width(Ft)	Wetted Width(Ft)	Depth(Ft) measured	Flow C.F.S.	Gradient (Channel)	RB Height (Ft)Grade	LB Height (Ft)Grade	Coho Juv. Densities	Area Spwn Avail.	Water Vis.(ft.)	Water sources perc.spr.	%P Within %G Reach	Cov.Dom. Sub-dom.	Substrate F,SG,LG,	Dom.Over story-Spp/ Avg.dia.	Excav. Sed.Depth	Bar.Type Height(Ft	Flood Ht. Above Chan.	Distance to River	Reference Points	Comments: 2ft flood Ht
0		40 12.3	3 0.91	1	2	1%	50'	5'	None		unlim	perc, tribs										overflow channel Bedrock RB
300'	285	3	3	1	2	2%				100ft²				Cedars, Douglas Fir vine maple, Salmonberry						150		end of overflow ch. 2ft. cascade
550	280	10	6	1		2%				patch gravel										200		several Log Blockages
660	260	10	7	2'		1%				1 patch												creek flowing through a cedar RB Bedrock
770	285	20	15	6"		1%	50'	5'												300?'		spring off Hill
850	295	15	10	6"		1%																Last spring, start of Sample
980	310	15'	0'																	100		
1080	295	10																		40'		End