

**SITE INFORMATION**

**Site Identifier :** CA1RB5 **Landowner Type :** State  
**Site Name :** Three Springs **Landowner Name :** DNR  
**WRIA :** 03.1411D **Address :**  
**Region :** NS **Address2 :**  
**Trib to :** Cascade R **City :**  
**River Mile :** 3.00 **State :**  
**River System :** Cascade R **Zipcode :**  
**Legal Description :** NW1/4S16T33NR11E **Phone :**  
**County :** Skagit **Coordinates**  
**Habitat Type :** spring creek **East:** 1,786,666.95 **North:** 1,164,608.29

**Directions :**

Site is located 2.5 miles up the Cascade River Road from the Marblemount bridge on the right side of the road.

**Area Overview :**

Site is a series of three springs emanating from the hill and flowing across a narrow bench along the Cascade river. The site is low gradient and gets good adult coho use.

**Field Survey Information**

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

**HABITAT INFORMATION**

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

**Flow:** ( ) Intermittent (x) Year-round

**Estimated Flows (cfs):** Lower end:3.0  
Upper end:1.0

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

**Receiving Water Temperature (C):**

**Other Observations:**

**Site Area Measurements:** ( ) Indirect (x) Direct ( ) Combination

Widths: Channel:1.9 Ponds: Wetlands:

Depths: Channel:0.3 Ponds: Wetlands:

Total length (includes ponds and wetlands):322

**Total existing habitat area (est. m2):**539

Spawning area: Mainstem:100 Tribs: Total:100

Impounded area: Mainstem: Tribs: Total:

Other rearing area: Mainstem:539 Tribs: Total:539

Unaccessible habitat: Mainstem: Tribs: Total:

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

Describe spawning habitat: Spawning habitat is mostly coarse sand to pea gravel

Rearing habitat conditions:  None  Poor  Fair  Good  Excellent

Describe pond and other rearing habitat: Site is a series of springs that form a low gradient channel with good cover throughout.

Describe unaccessible habitat:

Wetland type:  Bog  Marsh  Scrub-shrub  Forested

Describe:

Flooding potential:  Low  Medium  High

Describe: Site is at some risk from the bench being scoured away by the Cascade River.

#### FISH INFORMATION

Site entry condition:  Poor  Fair  Good

Describe: Adults appear to have problems migrating past a debris jam at 30 meters at times.

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

Describe: Site is full of juveniles, good numbers of adults have been observed at times.

Other species access and use:  Chum  Pink  Sockeye  Chinook  Trout

Describe: Trout use is assumed

ENHANCEMENT OPPORTUNITIES: None

Project type:

Equipment access:

ADDITIONAL COMMENTS

ATTACHMENTS AVAILABLE

Aerials  Sketch  Maps  Spawning Surveys  Juvenile Trapping  
 Other References

**Field Survey Information**

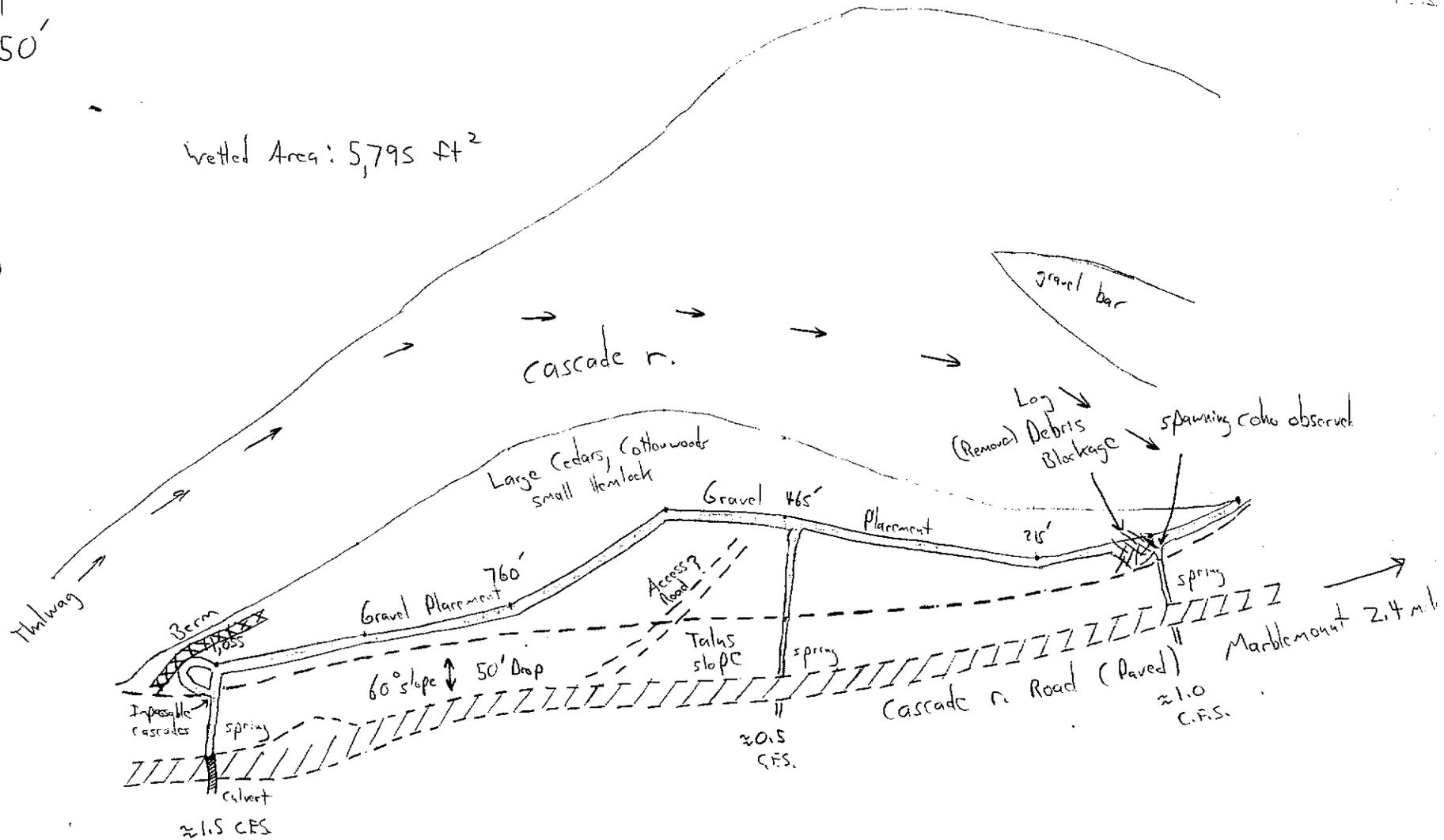
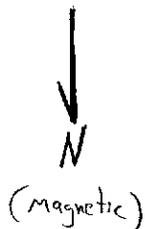
**Date :** 2/16/96

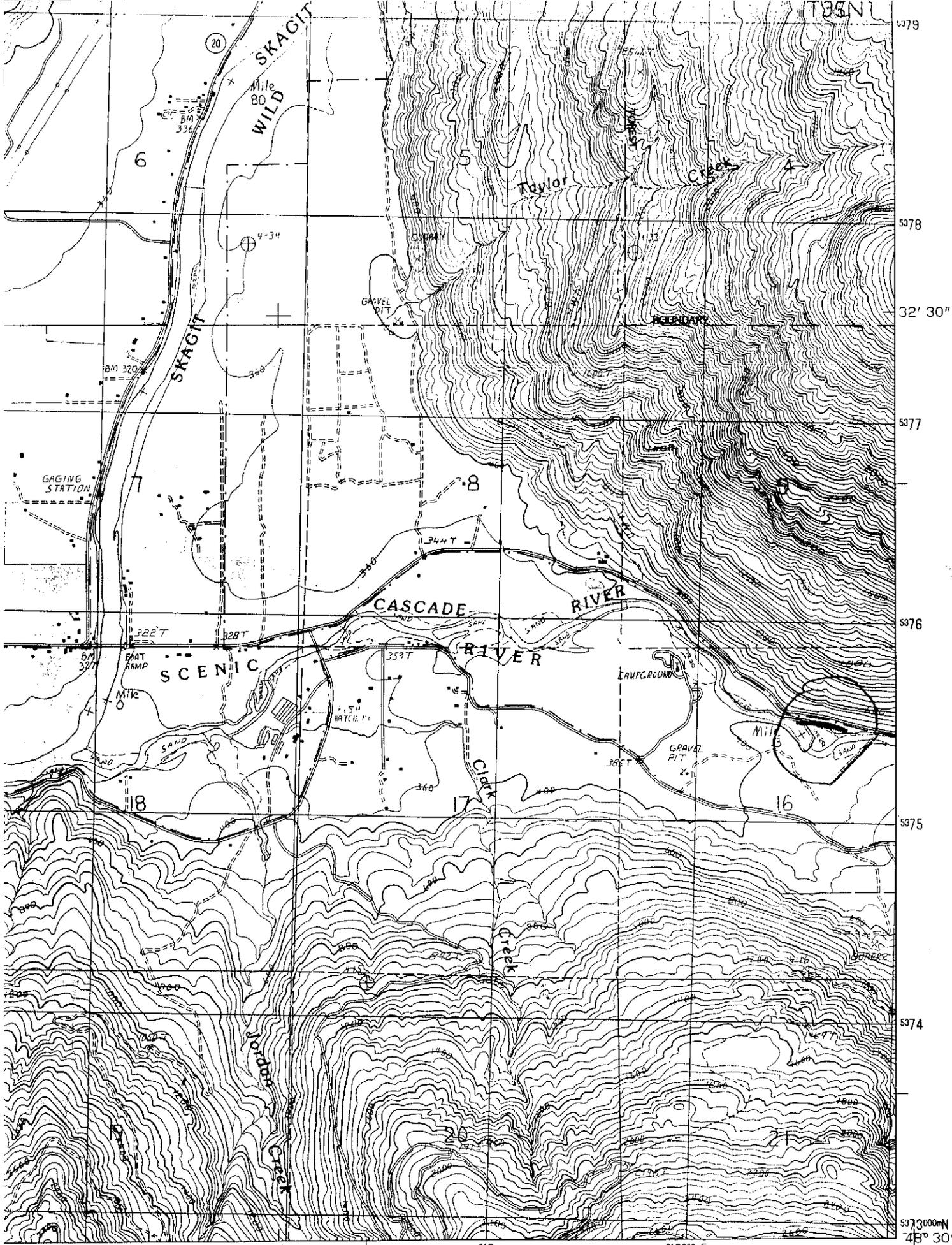
**Observer :** Barkdull

**Survey Type :** supplemental

The log jam near the mouth was cleared in 1992 by a convict crew from Indian Ridge Corrections. Spawner surveys conducted by W.D.F. and the Skagit System Co-op indicated that although the sustrate is mostly coarse sand, large numbers of adult coho use this site for spawning.

Three Springs  
12-13-91  
B. Barkdull  
Scale 1" = 150'





Three Springs

CARRBS

SITE IDENTIFIER: ~~CARRBS~~  
LOCAL NAME: THREE SPRINGS

NORTH SOUND OFF CHANNEL SITE INVENTORY DATA

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

WRIA: 3.1411D RIVER MILE/BANK LOCATION: RB 3.0

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

CHANNEL TYPE: Springs (Perennial)

	RIVER	LOW END	UPPER END	OTHER LOCATIONS
WATER TEMP:				
FLOW (CFS):		3.0 cfs		
WATER QUALITY:		Very good		

SUBSTRATE TYPE/SPAWNING GRAVEL ABUNDANCE & CONDITION:  
Spawning gravel is limited, substrate dominated by coarse sand.

COVER/LOD: Good cover and LOD throughout.

SITE DIMENSIONS: LENGTH: 1,055'  
WIDTH-WETTED: 6' ave  
-CHANNEL: same  
WETTED AREA: 5,795 ft<sup>2</sup>  
DEPTH: 1' ave

WATER SOURCE: Series of three springs.

FISH ACCESS/BLOCKAGES/CURRENT USE (BOTH ADULTS & JUV.):  
Debris jam at 90 ft appears to block access at times to adults.  
Adults observed below jam.

LANDOWNER: D.N.R.

CHANNEL ENTRANCE CONDITIONS: Fair, at best on cascade

FACTORS LIMITING PRODUCTION:  
Currently no access above 90ft, spawning gravel is limited.

SITE IDENTIFIER:CA1RB5  
LOCAL NAME:THREE SPRINGS

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NORTH SOUND OFF CHANNEL SITE INVENTORY DATA

UP-OUTMIGRANT TRAPPING CAPABILITY/OPPORTUNITY/DIFFICULTIES:  
None anticipated

BEAVER ACTIVITY:None

HEAVY EQUIPMENT ACCESS:Poor, very steep slope off of road to site

DIRECTIONS TO SITE: Site is located 2.5 miles up the Cascade river road from the Marblemount bridge.

ENHANCEMENT OPPORTUNITIES AND COMMENT:

A large debris jam deposited by the Cascade river is blocking access from 90ft up. Very little suitable gravel exists in the ensuing channel.

This site has good potential, but access for equipment is a major problem. It may be possible to build an access road into the site but the cost effectiveness of this is in doubt. It may be possible to air lift equipment in. For a long term project some sort of bank protection is needed to stop the bank erosion by the Cascade river at the upper end of the bench. The river is perilously close to the channel now. The debris jam at the lower end would need to be removed and gravel could be placed in the current channel. No channel excavation is really necessary which may make this project feasible even with the access problem. It may be possible, although difficult to remove the debris jam by hand labor (Cons?) and build a low cost project with a shorter life span.

NORTH SOUND OFF CHANNEL SITE INVENTORY DATA  
SUBSEQUENT SITE EVALUATION FORM

RIVER: Cascade  
SITE IDENTIFIER: CA1RB5

OBSERVER: B. Barkdull

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SUBSEQUENT EVALUATIONS:

In summer of 1992 the log jam was removed with a convict crew and spawners have been seen throughout spawning in the coarse sand and pea gravel.

