

STATE OF WASHINGTON
DEPARTMENT OF FISH & WILDLIFE
LANDS AND RESTORATION SERVICES PROGRAM
Salmonid Screening, Habitat Enhancement &
Restoration Division (SSHEAR)

OFF-CHANNEL SITE INVENTORY DATA

General Information:

Region: North Coast	Observer(s): Nettnin
River System: Clearwater	Date: 1990 - 1995
Site Identifier: CW-R11-04	WRIA: 21.0123 C (P)
River Mile Location: 31.0	RB/LB: RB
Local Name: Torrent Channel	Trib. to: Clearwater River (21.0024)
Legal Description: NW¼ Sec 28 T26N R10W	County: Jefferson
Habitat Type: Wall base channel	
Landowner: <input type="checkbox"/> Federal <input checked="" type="checkbox"/> State <input type="checkbox"/> County <input type="checkbox"/> Other Government <input type="checkbox"/> Private Department of Natural Resources	

Directions to site: Head north from Hoquiam on Hwy 101. Turn right 0.9 mi. beyond mile post 146 onto the Clearwater Rd. Proceed north 4.5 miles until coming to mile post 25.5 (the first in a series of descending half mile markers). Stay on the mainline. Turn right (C-2000) between MP 11.5 and 12.0 - just before coming to the Clearwater Correction Center. Proceed east on the C-2000 for 11.0 to 11.5 miles until coming to Susie Cr. (where the C-2000 drops down to the valley floor). There is a wide spot just before the bridge, where an access road is located. Walk down the access road to CW-R11-04. *Note - Eight to nine miles up the C-2000 (junction with the C-2040), there is a gate and a key will need to be procured through the Department of Natural Resources office in Forks.

Site Overview: In 1988, this site was a series of springs that flowed directly into the Clearwater River. In the winter of 1990, a mass wasting event occurred upstream on Susie Creek. This event filled the river channel with woody debris and caused a channel change leaving these springs to merge, forming a wall base channel. In 1995, a beaded channel was created as an enhancement project.

Habitat Information:

Water source: Springs, perk water.

Intermittent/year-around: year-around

Estimated flows (cfs): Lower end: 1.0 - 3.0 Upper end: 0.5 - 1.0

Water temperatures: Lower end: 9.5° C Upper end: 9.5° C

Adjacent stream temperature (Clearwater River): 8.5° C

Other water observations: Water is clear

Site area measurements: Indirect Direct Combination

Widths: Channel- 3 - 4 m Ponds- NA Wetlands- NA

Depths: Channel- 10 - 90 cm Ponds- NA Wetlands- NA

Total length surveyed (includes ponds and wetlands): 200 m

Total existing habitat area (est.): 700 m²

Spawning area: NA

Impounded area: NA

Other rearing area: 700 m²

Spawning Habitat conditions: None Poor Fair Good Excellent

Describe spawning habitat: Channel has sand substrate.

Rearing habitat conditions: None Poor Fair Good Excellent

Describe pond and other rearing habitat:

- Beaded channel provides small quiet pools behind weirs.

- Beads have some cover provided by LOD and bundled brush.

Describe unaccessible habitat: NA

Describe wetland: Bog Marsh Scrub-shrub Wetland Forested Wetland

No associated wetlands

Flooding potential: Low Medium High

The site will backwater as the river rises, however, the upper end of the channel is presently protected by the old woody debris deposit.

Fish Information:

Site entry condition to (Clearwater River): Poor Fair Good

Channel egresses just below a tailout where the main channel widens and the water slows.

Coho access and use:

Juvenile- Unknown None Poor Fair Good

Adult- Unknown None Poor Fair Good

Coho fry have been observed throughout the project.

Other species access and use: Chum Pink Sockeye Chinook Trout

It is assumed that trout use this channel, however none have been observed.

Habitat Improvements:

Enhancement opportunities:

- Completed in 1995, see comments.

- Add more cover structure

Additional Comments:

In 1995, the site (CW-R11-04) was selected for a beaded ground water enhancement project. The channel was excavated between the base of the terrace and the woody debris deposited by the debris torrent. The channel is about 200m long, 4m wide and 20 - 30cm deep with the beads at a maximum of 1.1m deep. There are five beads excavated in the channel. Fourteen plank controls were installed throughout the channel to hold the bedload from shifting at the beads and to step up in elevation.

Attachments Available:

Contact respective SSHEAR habitat biologist for the following checked items:

Aerials

Sketch

Maps

Culvert Report

Other references

Spawning surveys

Juvenile trapping

Fishway Report

DATE: 1990 - 1995

During the winter of 1990 a mass wasting occurred on Susie Creek. The debris torrent flowed into the lower end of this channel and deposited large amounts of woody debris and bedload. This caused the river to shift away and armored the LB of the channel. It also moved the mouth of the channel downstream to where the terrace wall meets the river.

In May of 1994, Dave King and Greg Blair, a Quinault biologist, inspected this site for a proposed beaded channel (CW-R11-4). The site is vulnerable to over topping by the Clearwater River, however there is a pretty large plug of LWD and stream bed material at the head end for protection.

In 1994, the North Coast Salmon Coalition built a temporary rearing pond within the flood plain of Susie Ck. to imprint fry in. This was done to help offset the impacts of the event. The rearing pond has since been abandoned by both the tribe and the creek.

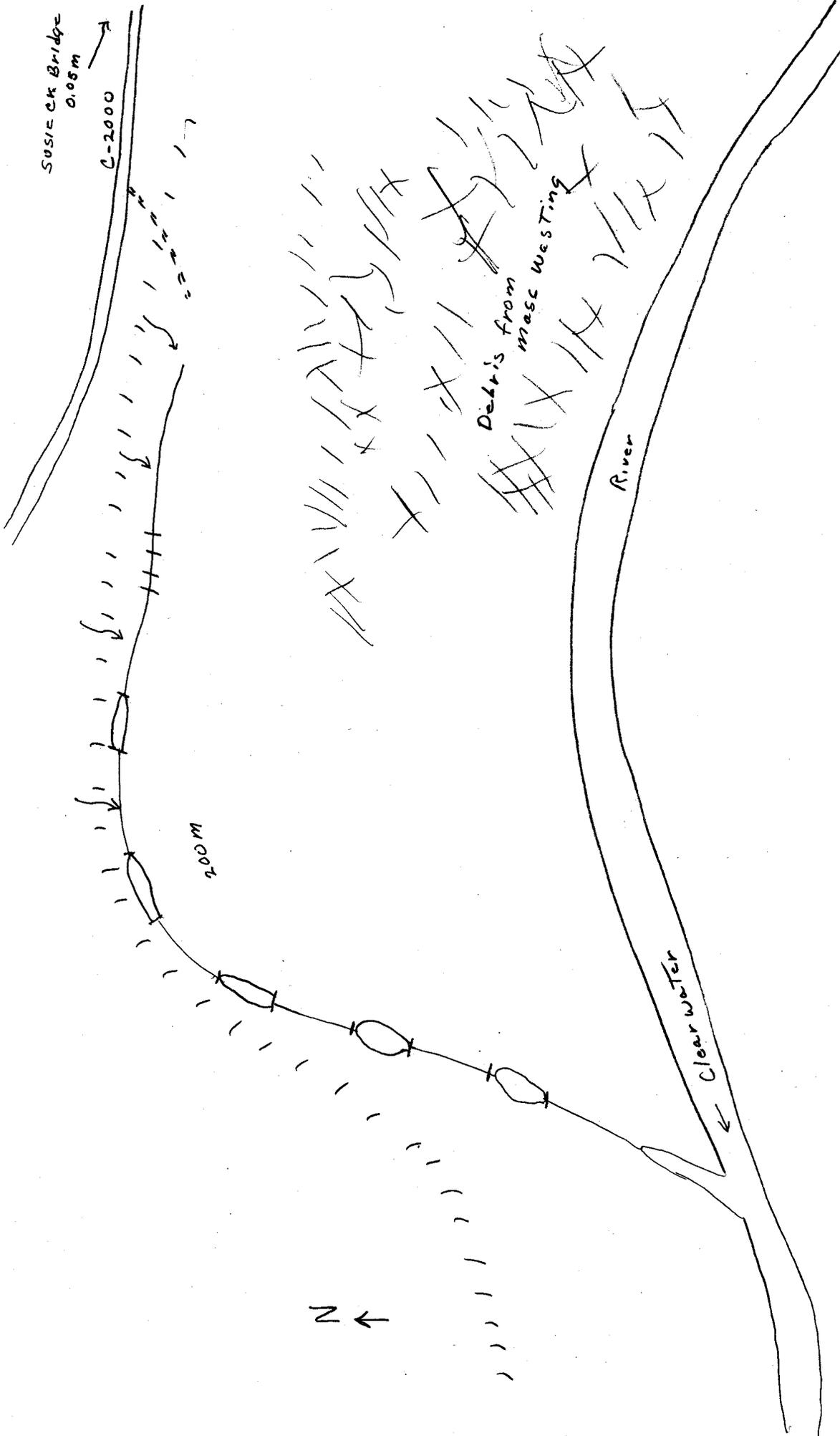
DATE: 10/8/95

OBSERVER: King/Nettnin

-Looked at the beaded channel that was built by the North Coast Salmon Coalition. High flows the day before had back watered most of the project, but did no visual damage.

-Susie Creek was **very** dark brown and had the odor of freshly disturbed wet soil.

-Channel temp: 9 - 9.5°C River temp: 8.5°C



SUSIE CK Bridge
0.05M

C-2000

200M

Debris from
mass Wasting

River

Clear Water

N

RIVER: CLEARWATER

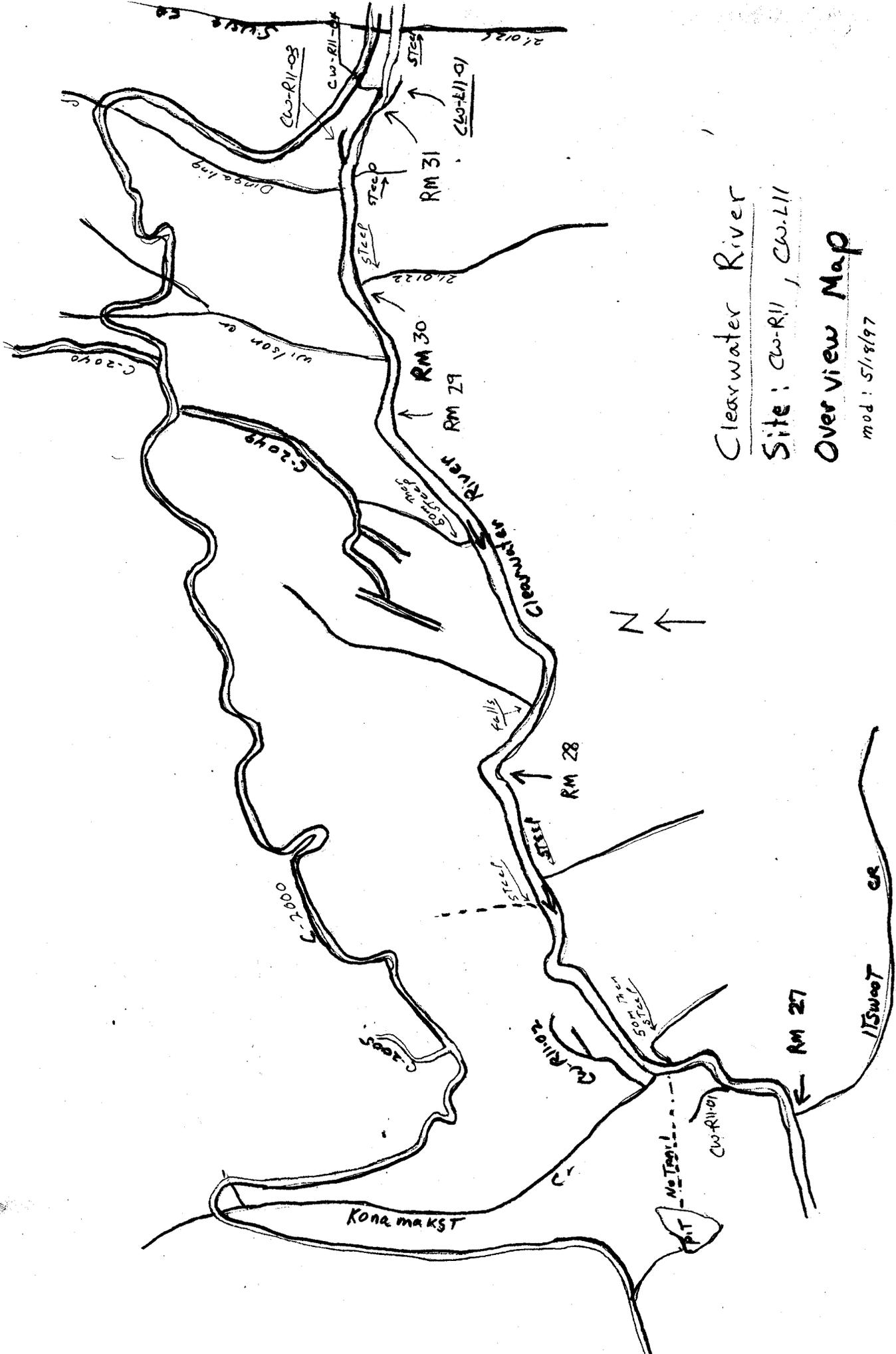
AREA: CW-R11,

SITE: CW-R11-04

WRIA:

NAME: Torrent Channel

DATE: 5/97



Clearwater River

Site: CW-R11, CW-L11

Over view Map

mod: 5/18/97

Note: The eastern third of the map has been compressed. Note river mileages.

(MC)

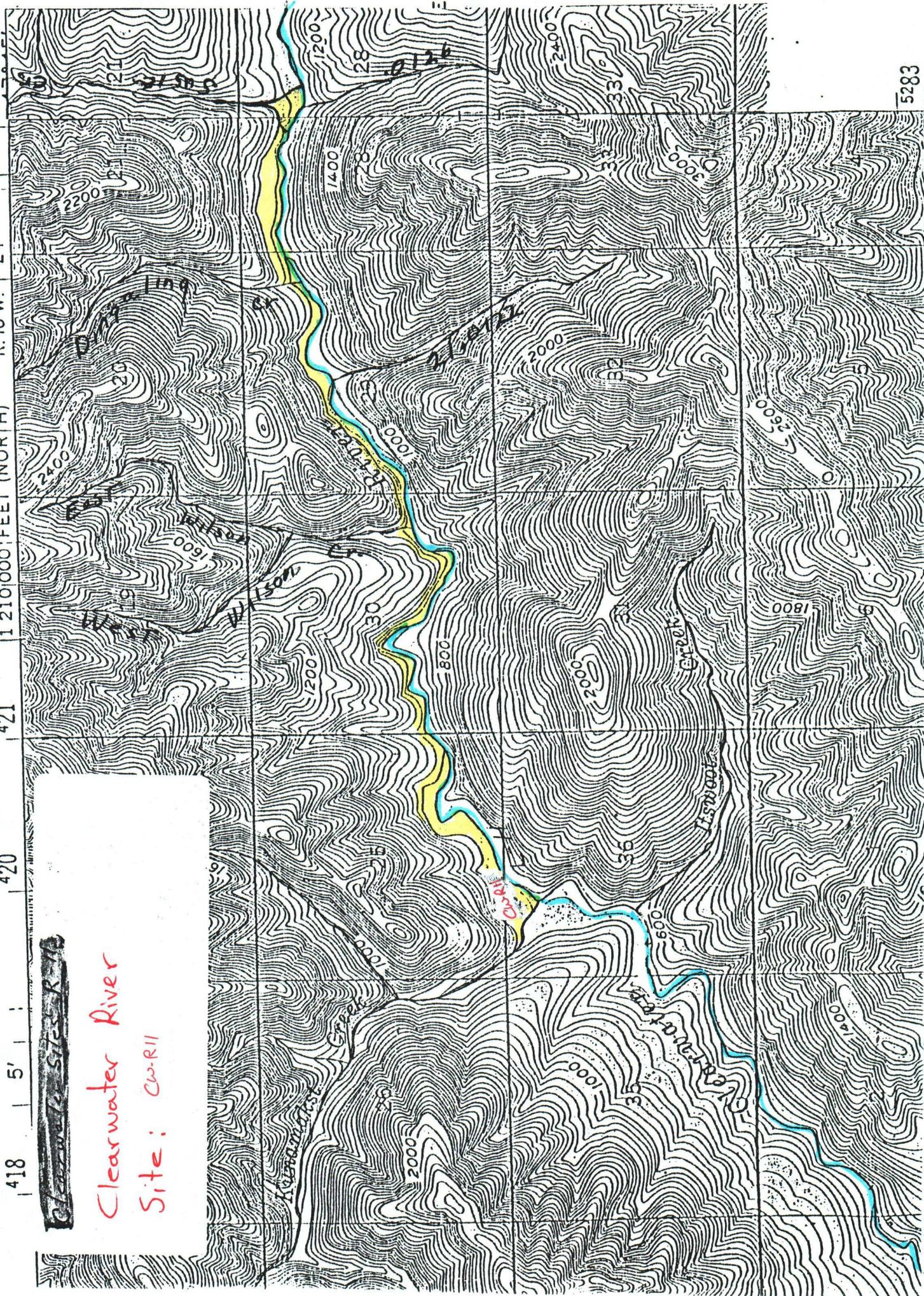
15 MINUTE SERIES (TOPOGRAPHIC)

124° 00' R. 10 W. 424

418 5' 420 421

Clearwater River

Site: CW-R11



5283