

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: Sol Duc	Date: 3/24 - 4/27/00
Site Identifier: S-0325	WRIA: 20.0325
River Mile Location: 3.1	RB/LB: LB
Local Name: Rainey Creek	Trib. to: Beaver Creek (20.0324)
Legal Description: NE¼ Sec 20 T30N R12W	County: Clallam

Habitat Type: Begins as a valley wall trib then flows across the valley floor receiving water from numerous tributaries.

Landowner: (X) Federal (X) State () County () Other Government (X) Private
- Unknown private ownership
- Department of Natural Resources
- US Forest Service

Directions to site: North from Forks on highway 101 to M.P. 203.9. Turn left onto SR 113 and follow for 2.1 miles. Pull into the wide parking area by Beaver Falls. Walk back down to the bridge and follow the left bank of Beaver Creek upstream to the second left bank tributary. This is Rainey Creek.

There are two access points in the upper watershed: continue on highway 101 to M.P. 205.1. Turn left onto gravel road, proceed 1.45 miles to a turnout overlooking Rainey Creek. Or, continue on the gravel road another 0.6 mi to a road to the left. Turn left and follow the road to the end, then follow the old grade down to Rainey Creek.

Site Overview: Rainey Creek has a watershed of about 800 acres. There is one residence in the watershed, but the ground around it is still unimproved. The watershed was logged, probably in the 30's and 40's. Most of the watershed has regenerated to deciduous/conifer mix, deciduous being the dominant species.

The southwest flank of Deadmans Hill is the source for Rainey Creek and several of its tributaries. The stream flows down the hill in a steep V-notch valley before it drops over a series of bedrock cascades. Below the cascades, the gradient becomes less severe and the valley becomes more U-shaped. As the stream reaches the lower end of the U-shaped valley, it encounters a jumble of woody debris, and is presently cutting down through the bed. It appears that a mass wasting occurred in the recent past. As the stream flows out onto the main valley floor, the channel is well defined. This area appears to be an old alluvial fan; there is a large quantity of gravel over clay. For 400 meters, the stream meanders across the valley in a channel one to two meters deep and three to five meters wide. The stream primarily stays within the confines of the channel except in a few areas of restrictions. In these locations, water is forced over the bank during storm events. Further downstream, Rainey Creek drops down a high clay fall, two meters in height, into an incised channel. It continues in this channel for about 180 meters and then enters a forested wetland. As it flows through the wetland, it receives water from numerous channels. Beaver activity in this area has resulted in numerous braids, wide shallow ponds and reduced shade. One of the braids connects with Johnson Creek resulting in two egresses for Rainey Creek. The main egress into Beaver Creek is immediately downstream of Beaver Falls.

Habitat Information:

Water source: Springs, valley wall tributaries, terrace tributaries and surface runoff.

Intermittent/year-around: Year-around

Estimated flows (cfs): Lower end: 1 - 2 Upper end: 0.5 - 1.5

Water temperatures: Lower end: 7.0 - 10.0°C Upper end: 6.0 - 7.0°C

Adjacent stream temperature: Not taken

Other water observations: Slightly tannic

Site area measurements: Indirect Direct Combination

Widths: Channel- 1.5 - 6.0 m Ponds- NA Wetlands- See wetland description

Depths: Channel- 5 - 40 cm Ponds- NA Wetlands- " " "

Total length surveyed (includes ponds and wetlands): 2,620 m

Total existing habitat area (est.): 17,270 m²

Spawning area: 2,700 m² Tributaries: 540 m² Total: 3,240 m²

Impounded area: 00 m² Tributaries: 1,000 m² Total: 1,000 m²

Other rearing area: 7780 m² Tributaries: 5,250 m² Total: 13,030 m²

Spawning Habitat conditions: None Poor Fair Good Excellent

Describe spawning habitat:

- Appropriate aggregate size but has an angular surface.
- Bedload movement appears greater than average at this time (no moss-covered rocks).
- Gravel appears clean, no excessive amounts of fine material.

Rearing habitat conditions: None Poor Fair Good Excellent

Describe pond and other rearing habitat:

- The area of old beaver activity (braids and spring channels) offers excellent rearing.
- The upper reaches have some favorable pools. The lack of woody debris in these areas has limited the number of pools though.
- The effect of migrating bedload will result in shifting of rearing areas.
- The canopy is primarily deciduous species. It is open with a coverage of 20 - 30% in the lower reach due to wetland and beaver activity. The upper reaches are well shaded by predominately deciduous species. There are conifer stands outside the deciduous RMZ strips. They may contribute LOD to the stream in the future.

Describe unaccessible habitat: NA

Describe wetland: Bog Marsh Scrub-shrub Wetland Forested Wetland

- This channel drains a portion of a large wetland. The wetland is approximately 700 m long and 200 - 400 m wide. This wetland drains into both Rainey Creek and Johnson Creek. There are eight channels that drain from the wetland into the lower 500 m of Rainey Creek. There are four channels that drain into lower 400 m of Johnson Creek.
- The predominant shade provider is alders with some conifer mixed in. The canopy closure has a variety of ranges: dense closures of 90 - 100% over the area drained by the smaller tributaries, moderate closures of 40 - 60% along the mainstem reaches, and a total lack of a canopy in the open marsh and beaver pond areas.
- The under story is dense to moderate and is composed of primarily salmonberry, interspersed with stinkberry and vine maple.

Flooding potential: Low Medium High

- Flashy flows during rain events.

Fish Information:

Site entry condition to (name of stream): Poor Fair Good

- Enters in an eddy on a out-turn of Beaver Creek.

Coho access and use:

Juvenile- Unknown None Poor Fair Good

Adult- Unknown None Poor Fair Good

- Juveniles were abundant below the clay falls, and were present above the falls.
- The Quileute Nation maintains a spawner index on the reach downstream of the clay falls.

Other species access and use: Chum Pink Sockeye Chinook Trout

- Trout were observed using this stream. It is assumed they utilize most of the system.

Habitat Improvements:

Enhancement opportunities:

Possible project type

- LOD placement
- Maintain integrity of the watershed

Equipment access

- Limited access

Additional Comments:

Attachments Available:

Contact respective SSHEAR habitat biologist for the following checked items:

- | | | | |
|---|--|--|---|
| <input type="checkbox"/> Aerials | <input checked="" type="checkbox"/> Sketch | <input type="checkbox"/> Maps | <input type="checkbox"/> Culvert Report |
| <input type="checkbox"/> Other references | <input type="checkbox"/> Spawning surveys | <input type="checkbox"/> Juvenile trapping | <input type="checkbox"/> Fishway Report |

NORTH COAST OFF CHANNEL SURVEY
SUBSEQUENT SITE EVALUATION FORM

River System: Sol Duc

Site No.: S-0325
Site Name: Rainy Cr
WRIA: 20.0325

DATE: 2/6-2/7/01

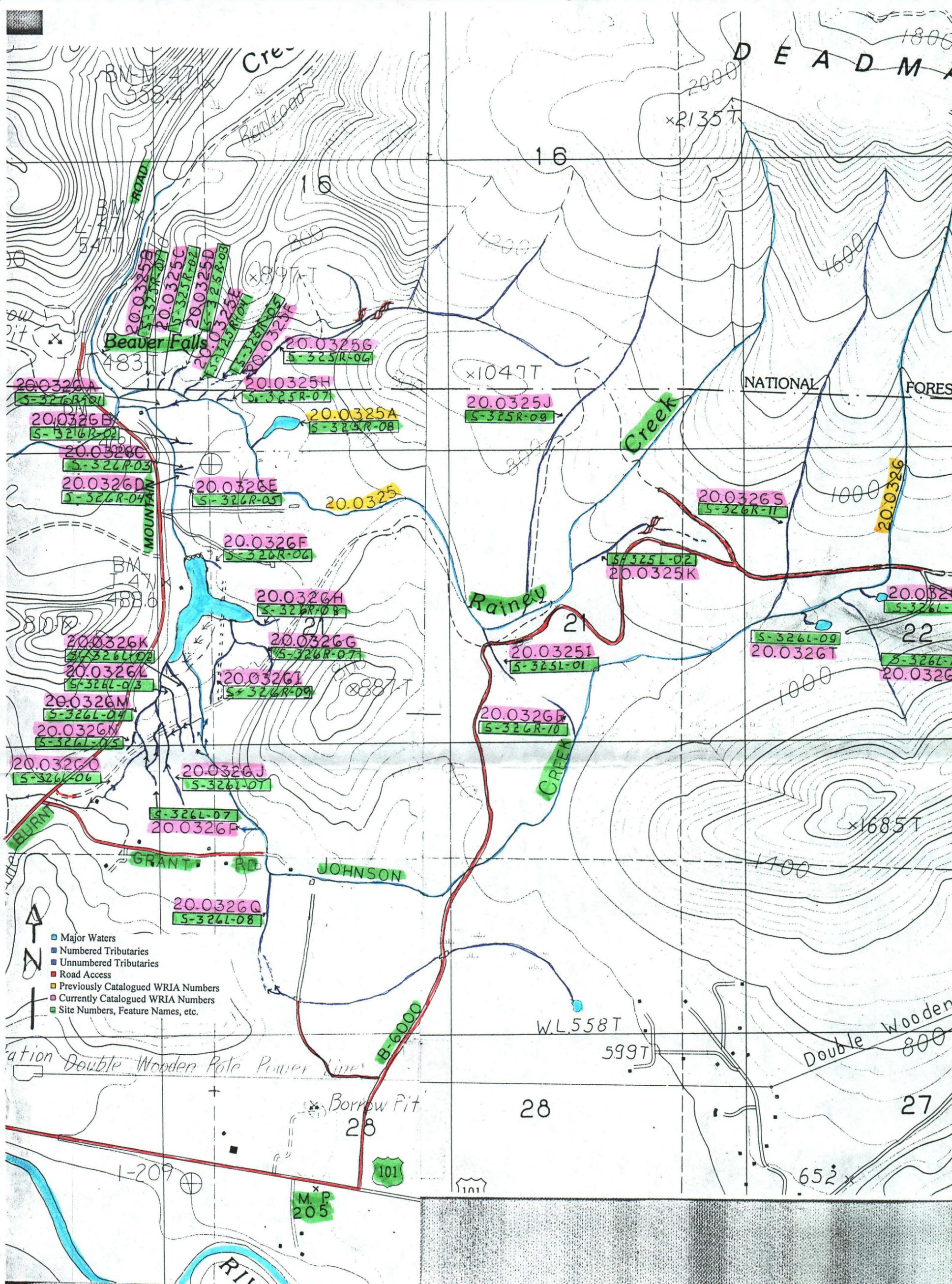
OBSERVER: Darrow

MINNOW TRAPPING REPORT

TRAP	DATE SET	TEMP	DATE PULLED	TEMP	COHO	CATCH			COTTID
						RBT	CUTT	0+	
1	2/6	5.0°C	2/7	5.0°C	0	0	0	0	0
2	2/6	5.0°C	2/7	5.0°C	0	0	0	0	0
3	2/6	5.0°C	2/7	5.0°C	0	0	0	0	0
TOTALS:					0	0	0	0	0

COMMENTS:

- Trap 1 was placed 40m below old grade crossing
- Trap 2 was placed 10m above the old grade crossing
- Trap 3 was placed 30m " " " " "
- All traps were baited with salmon roe.
- Steep cascades below this reach

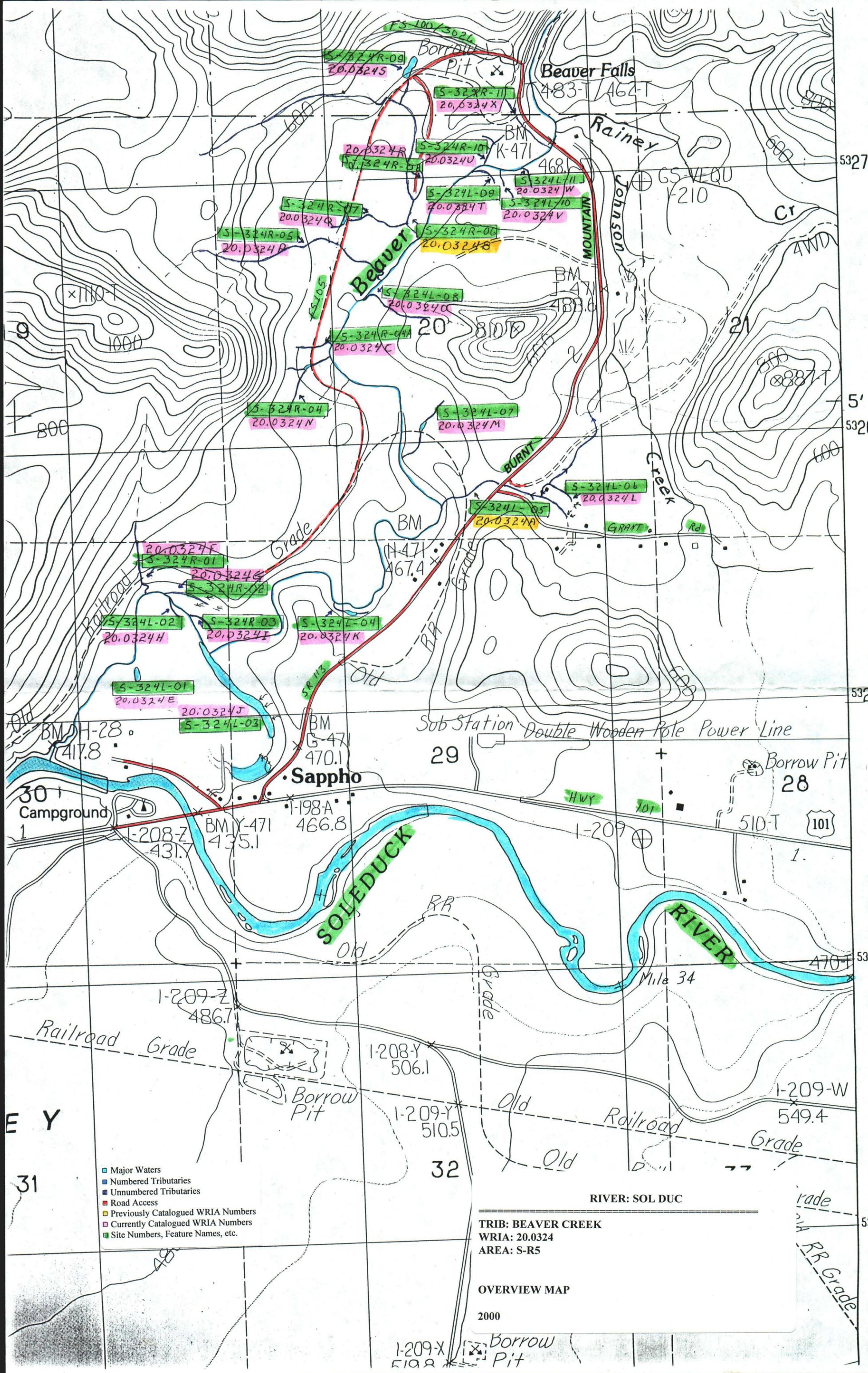


RIVER: SOL DUC

TRIB: JOHNSON CREEK & RAINEY CREEK
 WRIA: 20.0326, 20.0325
 AREA: S-R5

OVERVIEW MAP

2000



- Major Waters
- Numbered Tributaries
- Unnumbered Tributaries
- Road Access
- Previously Catalogued WRIA Numbers
- Currently Catalogued WRIA Numbers
- Site Numbers, Feature Names, etc.

RIVER: SOL DUC
 TRIB: BEAVER CREEK
 WRIA: 20.0324
 AREA: S-R5

OVERVIEW MAP
 2000

1-209-X
 510.2
 Borrow Pit

E Y
 31

RR Grade
 53