

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 River	Date: 3/30/00
Site Identifier: S-326L-04	WRIA: 20.0326M (P)
River Mile Location: 0.04	RB/LB: LB
Local Name: Unnamed	Trib. to: S-326L-01 (20.0326J)
Legal Description: SE¼ Sec 20 T30N R12W	County: Clallam
Habitat Type: Terrace tributary	
Landowner: <input type="checkbox"/> Federal <input type="checkbox"/> State <input type="checkbox"/> County <input type="checkbox"/> Other Government <input checked="" type="checkbox"/> Private - Mr. & Mrs. Roger Lien	

Directions to site: North from Forks on highway 101 to M.P. 203.9. Turn left onto SR 113 and follow for 0.9 miles to a gravel road to the right. This is a private driveway to the Roger Lien residence. After securing permission, park in the wide spot next to the garage. Follow the old grade north easterly for 130 meters to the first culvert crossing. This is S-326L-04.

Site Overview: This terrace tributary is part of a large marsh, scrub/shrub and forested wetland complex that is located in the middle reach of Johnson Creek. It drains a southeasterly portion of the wetland. The channel begins as a braid from S-326L-07. It then receives water from S-326L-05, S-326L-06, and individual springs/seeps as it flows across the wetland complex. As it reaches the old grade, beaver influence diverts the majority of the flow from S-326L-07 into S-326L-04. Below the grade, the channel is shaded by deciduous brush and some scattered alder. Above the grade, it is shaded by a deciduous forest with some scattered conifers. The understory is mainly salmonberry.

Habitat Information:

Water source:

- S-326L-07, S-326L-06, S-326L-05, and individual springs/seeps from the wetland.

Intermittent/year-around: year-around

Estimated flows (cfs): Lower end: 0.5 - 0.7 Upper end: 0.1 - 0.2
- The lower end of this channel is receiving most of the flow from S-326L-07 due to beaver activity.
- The upper end also receives water from S-326L-07.

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

Adjacent stream temperature S-326L-01 (20.0326J): 6.0 °C

Other water observations: Clear water

Site area measurements: Indirect Direct Combination

Widths: Channel- 0.5 - 1.0 m Ponds- See description

Wetlands- See description

Depths: Channel- 5 - 15 cm Ponds- " "

Wetlands- " "

Total length surveyed (includes ponds and wetlands): 170 m.

Total existing habitat area (est.): 1,400 m²

Spawning area: 00 m²

Tributaries: 00 m²

Total: 00 m²

Impounded area: 1,100 m²

Tributaries: 120 m²

Total: 1,200 m²

Other rearing area: 70 m²

Tributaries: 120 m²

Total: 200 m²

- The numbers for impounded area reflects the co-existing impounded habitat between S-326L-04 and S-326L-07.

Spawning Habitat conditions: None Poor Fair Good Excellent

Describe spawning habitat:

- No gravel available for spawning

Rearing habitat conditions: None Poor Fair Good Excellent

Describe pond and other rearing habitat:

- There are two beaver ponds associated with this channel. The first dam is at the mouth and impounds the lower 100 meters of the channel. The other is a result of a plugged culvert, impounding water behind the grade.

- The channel lacks woody debris. Aquatic vegetation and skunk cabbage provide some cover.

- The channel is well shaded by a deciduous forest with salmonberry and other brush species as an understory.

- The channel has a gradient of 2 - 4%.

Describe unaccessible habitat: NA

Describe wetland: Bog Marsh Scrub-shrub Wetland Forested Wetland

- This channel drains a small portion of a large wetland. It and the associated tributaries drain the southeast portion of the wetland.

- This portion of the wetland is forested with 60 - 80-year old deciduous trees and scattered conifers.

- The overall dimensions of the wetland are approximately 700 m long and 300 m wide.

- The complex is located in the middle reach of Johnson Creek. It is separated from the lower Johnson Creek/Rainey Creek wetland by a low, flat upland. The saturation zones could be interconnected.

- The predominant overhead shade producer is deciduous tree and brush species with some scattered conifers. The canopy closure ranges 90 - 100% over the area drained by the smaller tributaries, to 40 - 60% along the main stems, to total lack of a canopy in the open marsh and beaver ponds areas.

- The under story (dense to moderate) is mainly salmonberry, interspersed with stink berry and vine maple.

- The forested wetland is the most dominant type of wetland in this complex.

Flooding potential: Low Medium High

- May receive some overbank storage from Johnson Creek during major storm events.

Fish Information:

Site entry condition to S-326L-01 (20.0326J): Poor Fair Good

- The channel flows into an impounded reach.

Coho access and use:

Juvenile- Unknown None Poor Fair Good

Adult- Unknown None Poor Fair Good

- Juveniles were observed in several places during the survey.
- It is not known if the beaver dams impede fry migration.
- Coho are documented to spawn in the mainstem of Johnson Creek, below and above the wetland. There is no gravel in this channel.

Other species access and use: Chum Pink Sockeye Chinook Trout

- Trout were not identified during the survey. It is assumed that they use this channel.
- Trout were observed in the mainstem.

Habitat Improvements:

Enhancement opportunities:

Possible project type

- Remove old culvert from abandoned grade.
- Tie this and three other channels together with a groundwater channel.
- Maintain the integrity of the channel and the overall wetland.

Equipment access: yes

Additional Comments:

- The Quileute Nation has spawner indexes on the reach of Johnson Creek below the wetland and one above the wetland
- Johnson Creek had not been depicted correctly in the WRIA catalog. The associated numbering in relation to this channel is in error. The stream catalog does not show the lower reach of Johnson Creek. A supplemental number 20.0324C, was assigned to represent this creek. However, the catalog shows a left bank tributary (20.0326) to Rainey Creek at RM 1.2. This tributary is in fact, the upper reach of Johnson Creek. It is suggested that all of Johnson Creek be given the WRIA number 20.0326. This document reflects this change.
- The majority of the water in this channel comes from S-326L-07 after it braids. It then merges again downstream and flows out a single channel. It could be assumed that this channel and S-326L-07 are one channel. However, if the beaver influence was removed and the braid was blocked, there is enough spring influence to form two separate water courses. Therefore, I have identified them as separate channels.

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 checked="" 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-326L-04
Site Name: Liens' Marsh
WRIA: X

DATE: 1/23-1/24/01

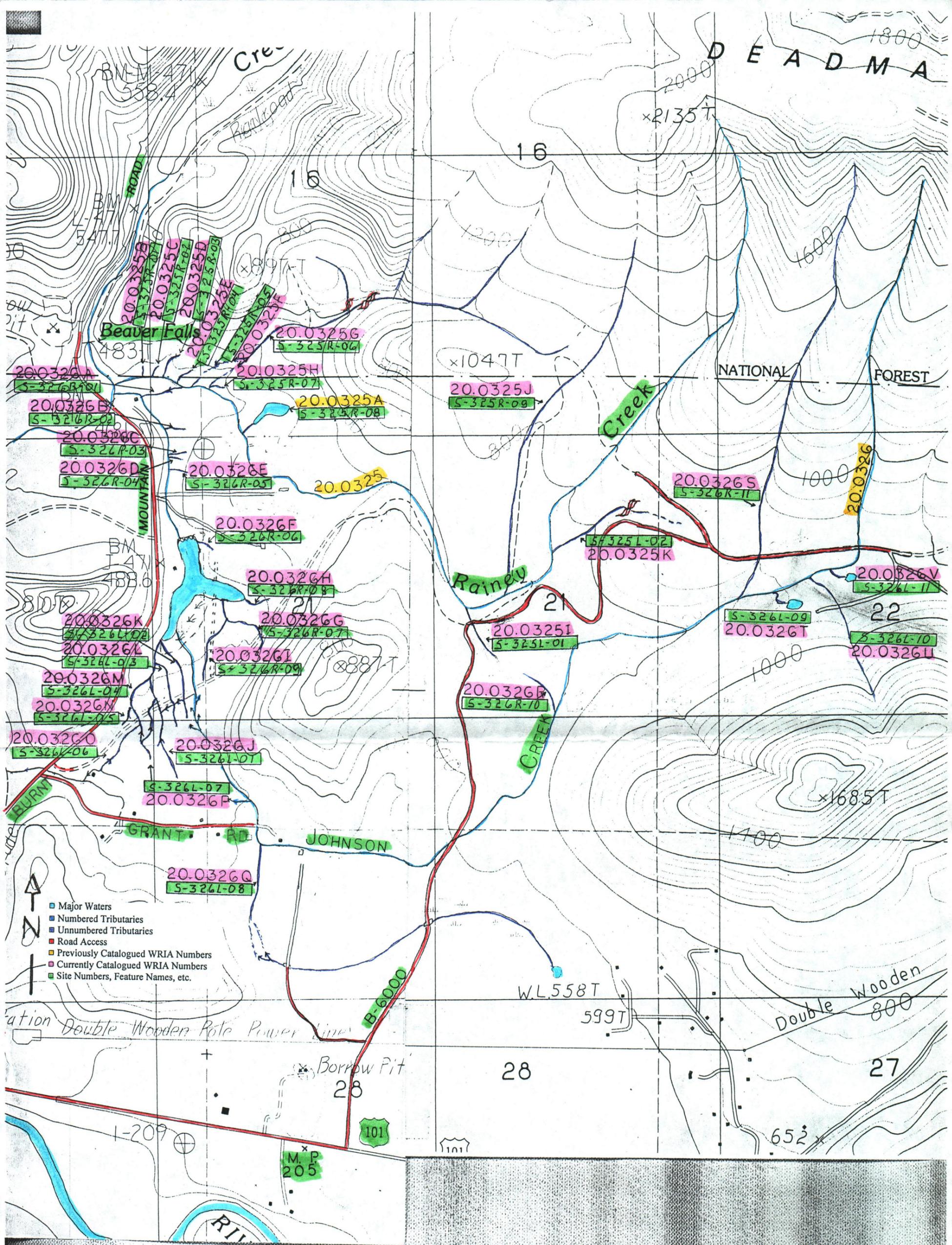
OBSERVER: Darrow

MINNOW TRAPPING REPORT

TRAP	DATE		DATE		COHO	CATCH			COTTID
	SET	TEMP	PULLED	TEMP		TROUT		0+	
						RBT	CUTT		
1	1/23	7.0°C	1/24	7.0°C	15	0	0	0	1
2	1/23	7.0°C	1/24	7.0°C	21	0	0	0	1
3	1/23	7.0°C	1/24	7.0°C	10	0	0	0	2
TOTALS:					46	0	0	0	4

COMMENTS:

- Trap 1 was placed 5 m above the culvert in the beaver impoundment. Fish ranged 7-8cm, but in good shape.
- Trap 2 was placed in beaver impoundment to the right about 40 m. Fish in good condition ranged from 7 - 10 cm.
- Trap 3 was placed in beaver impoundment about 30 m toward S-326L-07. Fish in good condition ranged from 7-10cm
- All traps were baited with salmon roe.

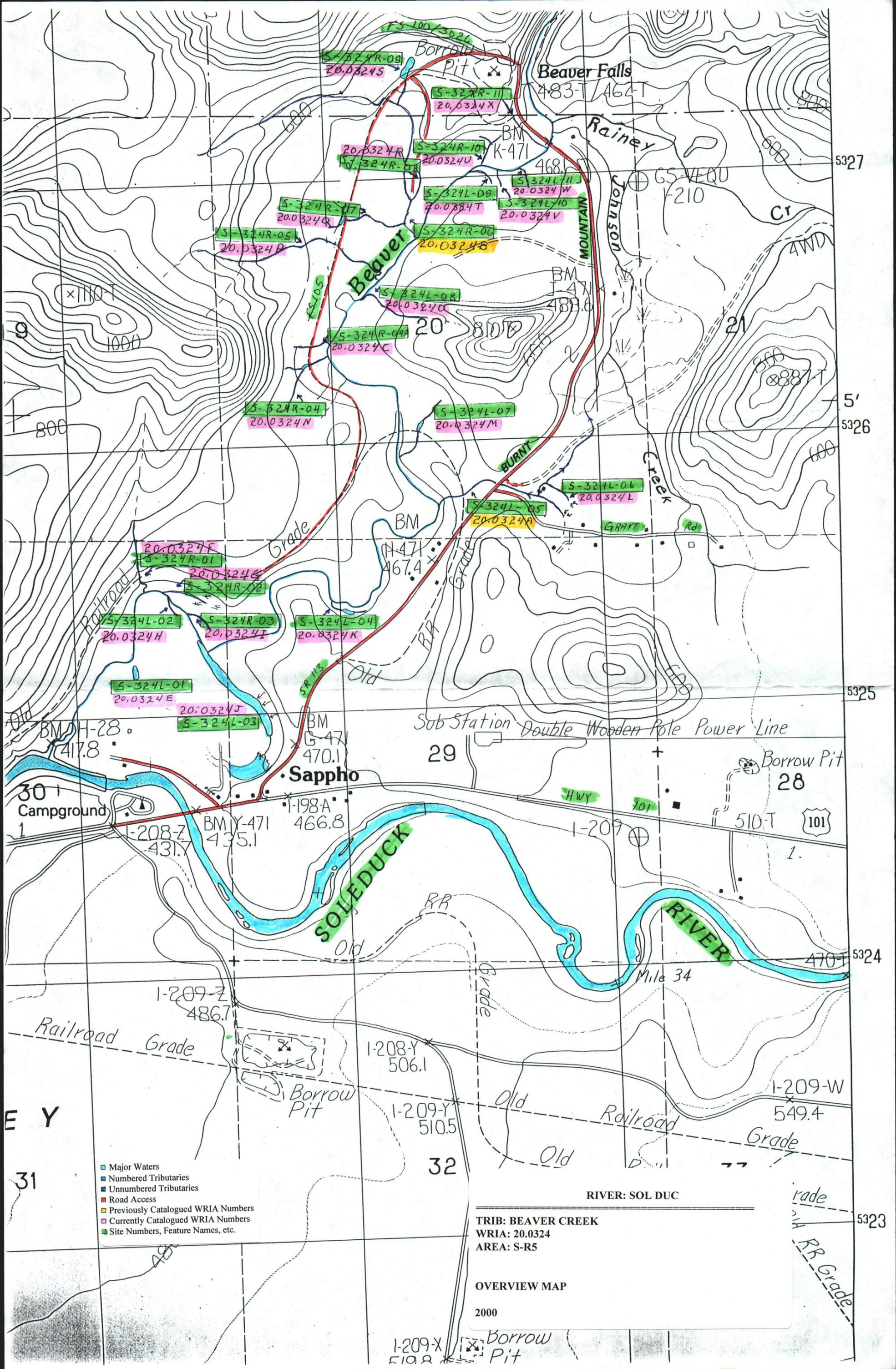


RIVER: SOL DUC

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
 519.2
 Borrow Pit