



**Total existing habitat area (est.):** 150 m<sup>2</sup>

Spawning area: 00 m<sup>2</sup>

Impounded area: 80 m<sup>2</sup>

Other rearing area: 70 m<sup>2</sup>

**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 ponds associated with this channel. The first is backwater influence from a plugged culvert in S-326L-04 and impounds the lower 10 meters of the channel. The other is a result of backwater from a culvert set above the grade located in S-324L-06.
- The channel has small woody debris, aquatic vegetation and skunk cabbage for 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 4 - 6%.

**Describe unaccessible habitat:**

- The impounded area in the upper end is unaccessible due to subsurface flows.

**Describe wetland:**  Bog  Marsh  Scrub-shrub Wetland  Forested Wetland

- This channel drains a small portion of a large wetland. This channel 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 trees and brush species, with scattered conifers mixed in. 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 pond 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

**Fish Information:**

**Site entry condition to S-326L-04 (20.0326M):**  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 the lower pond during the survey.
- It is unknown 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 available for spawning 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  
- Channelize the subsurface area to permit access.  
- Maintain the integrity of the channel and the overall wetland.

Equipment access: No

**Additional Comments:**

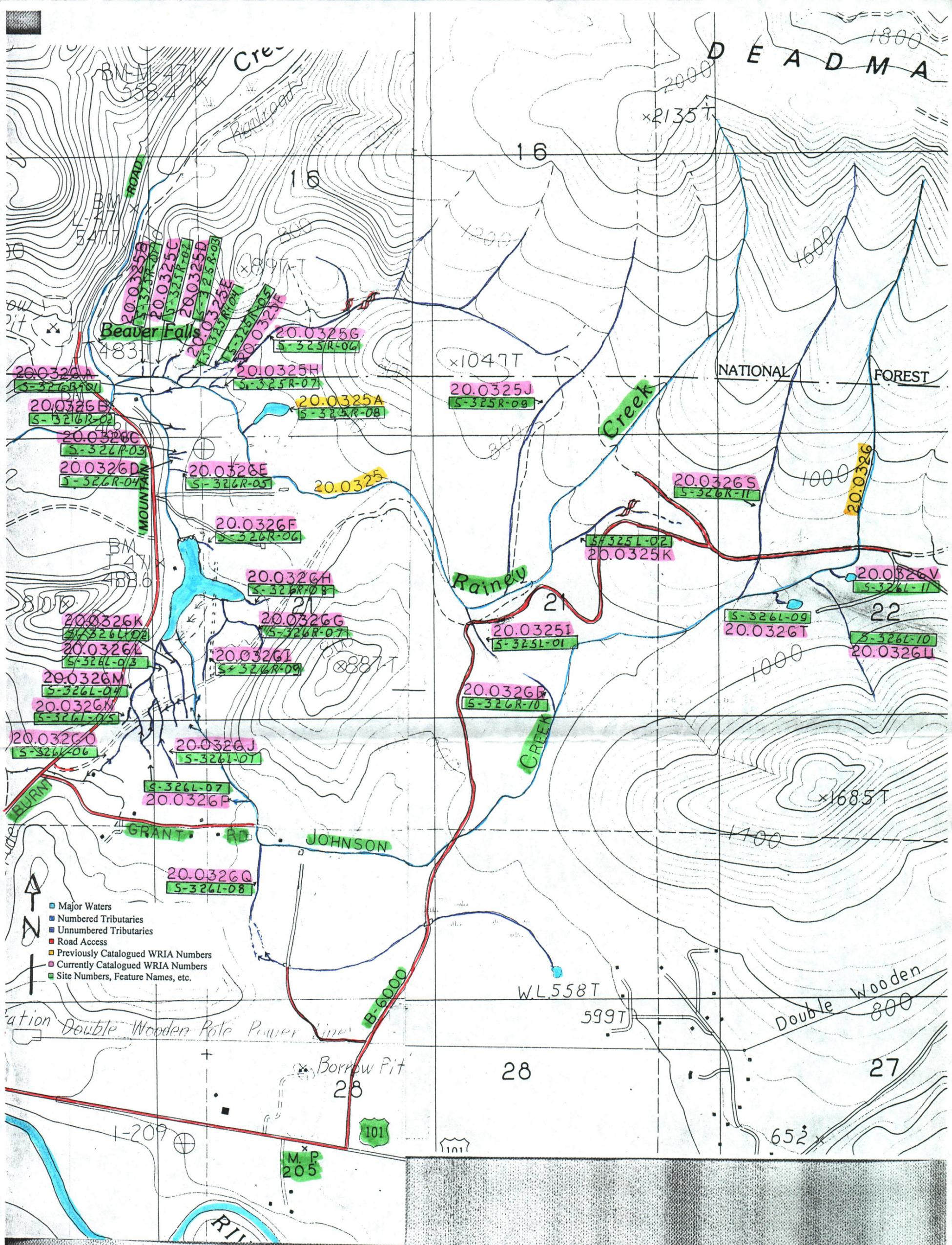
- The Quileute Nation has spawner indexes on the reach of Johnson Creek below the wetland and one above the wetland
- Johnson Creek had not been depicted correctly in the WRIA catalog. The associated numbering in relation to this channel is in error. The stream catalog does not show the lower reach of 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.

**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 |



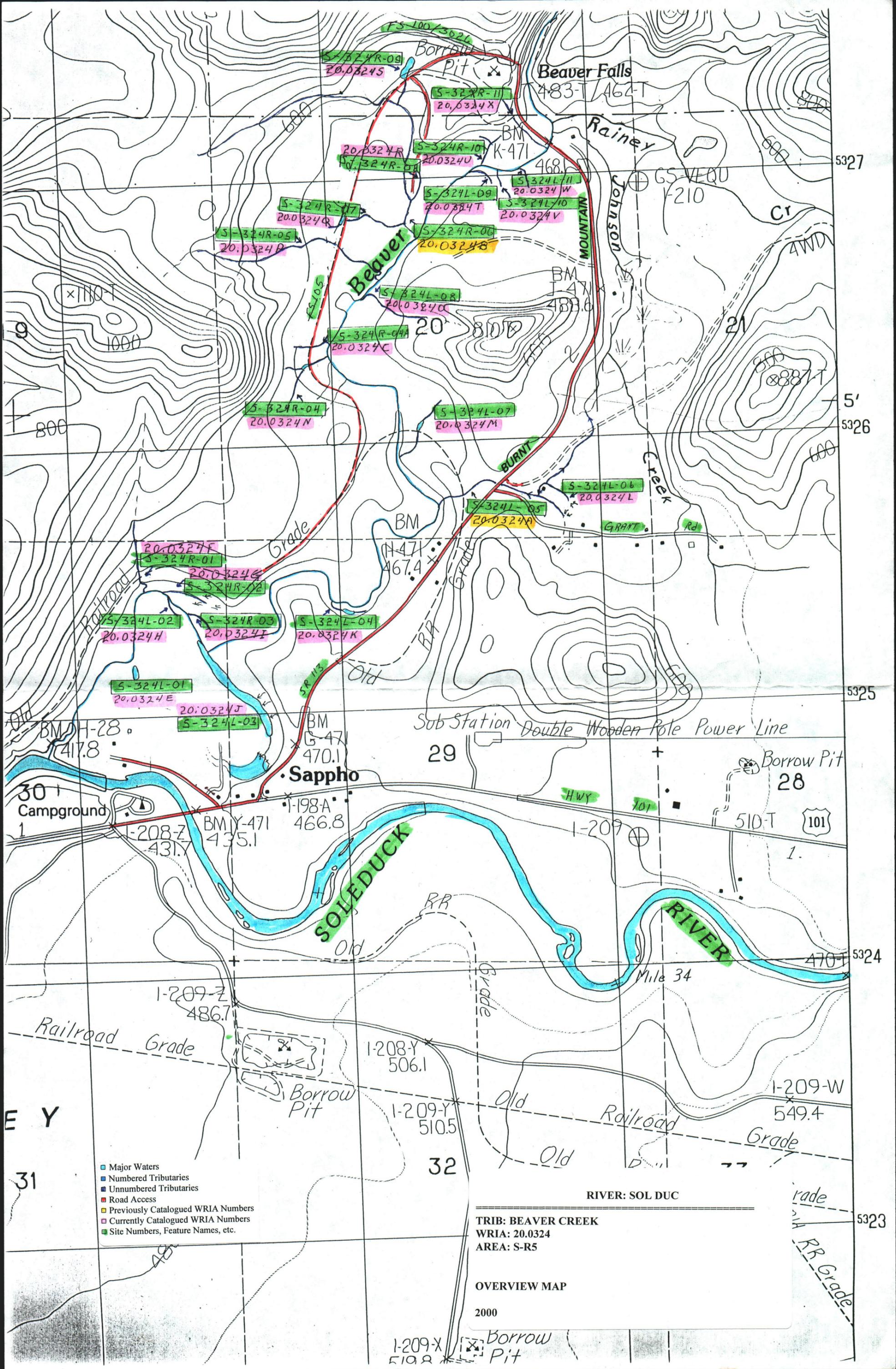


RIVER: SOL DUC

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