



Spawning habitat conditions:  None  Poor  Fair  Good  Excellent

Describe spawning habitat: Spawning habitat is generally excellent with perfect sized gravel throughout except for a reach through a pasture that has been heavily impacted by cattle.

Rearing habitat conditions:  None  Poor  Fair  Good  Excellent

Describe pond and other rearing habitat: The lower 400 meters is generally steep and mostly cascades and has recently been clearcut right up to the edge of the stream. Above this reach the gradient levels out and the habitat is excellent with good cover up to the county road. From here to the second private road crossing (SH16) the gradient is still low but cattle have access and the stream is trampled. Above this point the stream is in 20 year old second growth and is slowly gaining gradient throughout.

Describe unaccessible habitat: Very small and steep

Wetland type:  Bog  Marsh  Scrub-shrub  Forested

Describe:

Flooding potential:  Low  Medium  High

Describe: Stream appears very stable

#### FISH INFORMATION

Site entry condition:  Poor  Fair  Good

Describe: Fish access to the site may be limited by the high gradient reach near the mouth. A culvert on Rock creek at the Grandview road is nearly a complete barrier to adults although adult coho and steelhead have been observed above.

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

Describe:

Other species acces and use:  Chum  Pink  Sockeye  Chinook  Trout

Describe: Trout were observed throughout the survey

#### ENHANCEMENT OPPORTUNITIES

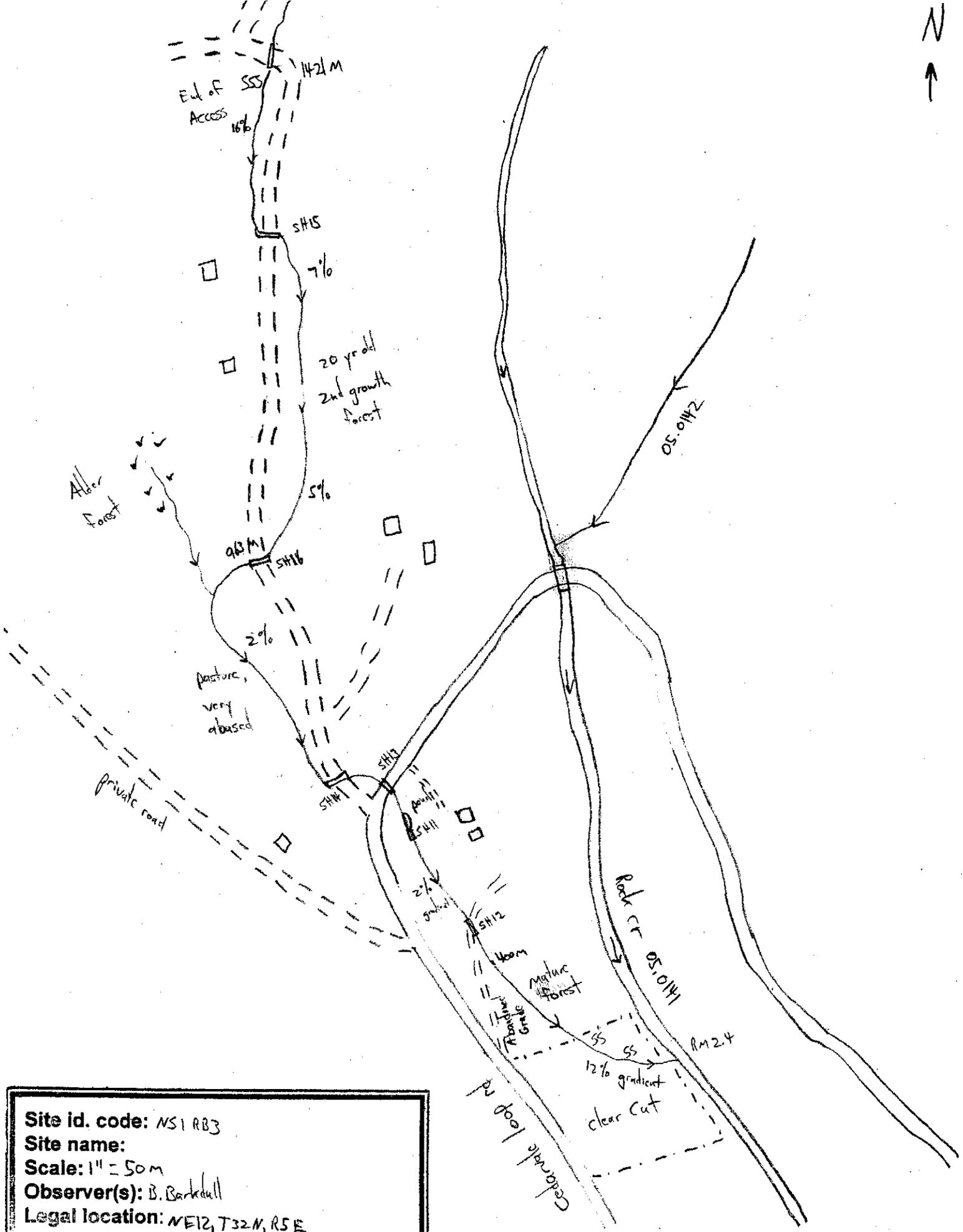
Project type: Culvert replacement, fencing and planting

Equipment access: Good

ADDITIONAL COMMENTS: Culverts at the Grandview road, SH11, SH12, SH14, SH15, SH16 are all barriers. Fencing is needed to eliminate cattle access above the Cedarvale Loop road.

#### ATTACHMENTS AVAILABLE

Aerials  Sketch  Maps  Spawning Surveys  Juvenile Trapping  
 Other References



Site id. code: NS1 RB3  
Site name:  
Scale: 1" = 50m  
Observer(s): B. Barkdull  
Legal location: NE12, T32N, R5E



7/23/01 SM tab to Rock co.  
above 1st Calvert PTF

young  $\approx 20$  yr second growth  
13° 16%

0

|      |     |     |      |      |
|------|-----|-----|------|------|
| 13.5 | 0.7 | 1.1 | 0.02 | RF   |
| 17.7 | 0.9 | 2.8 | 0.06 | Pool |
| 25.5 | 0.9 | 1.3 | 0.02 | RF   |
| 26.7 | 0.8 | 1.1 | 0.06 | Pool |
| 56.8 | 0.8 | 1.2 | 0.02 | RF   |
| 51.8 | 0.8 | 1.3 | 0.06 | Pool |
| 60.0 | 0.8 | 1.2 | 0.02 | RF   |

0 Boulder, 25 coll, 50 gr, 38 sand

Reach # 7

NSI RB3

7/11/61 tub to Rock Reach #2  
above Calvert

Reach #6

|                 |     |     | 70 g, 30 ml |      |
|-----------------|-----|-----|-------------|------|
| 3.8             | 1.3 | 2.6 | 0.11        | Pool |
| 5.8             | 1.0 | 1.8 | 0.02        | RF   |
| 8.0             | 1.1 | 2.0 | 0.08        | Pool |
| 13.2            | 1.7 | 2.6 | 0.02        | RF   |
| 15.3            | 3.5 | 5.2 | 0.08        | Pool |
| 26.4            | .5  | 4.5 | 0.02        | RF   |
| <del>33.9</del> | 1.0 | 2.6 | 0.06        | Pool |
| 41.9            | 1.0 | 2.2 | 0.02        | RF   |
| 43.9            | 1.5 | 2.3 | 0.08        | Pool |
| 45.5            | 1.3 | 2.4 | 0.02        | RF   |
| 49.2            | 1.0 | 2.1 | 0.06        | Pool |
| 51.1            | 1.0 | 3.1 | 0.02        | RF   |
| 52.9            | 0.7 | 3.0 | 0.07        | Pool |
| 60.0            | 1.6 | 2.0 | 0.02        | RF   |

7/11/01 Hobbs Rocks

Reach 1 12% gradient 58°

60m 1.5 width, 3.0 ch 0.1d  
cascade

~ 400m

10% gravel, 80 cobble, 10 sand

Reach #5

**WDFW - SShear**  
**PHYSICAL SURVEY OF POTENTIAL HABITAT (Ver. 44)**

Stream Name: Rock Cr Date: 07/11/01  
 Tributary To: N F Stillaguamish Observer(s): Barkdull/ Griffith  
 WRIA #: 5.0141 Section surveyed: Grandview rd  
 Sample Frequency: 60 m reach 0  
 Survey Method: 4 File: 050141.qpw

**Summary of Information - Total Stream Length**

Total Length Surveyed: 5158.00 m Tot. Length Culverted: 0.00 m  
 Total Length Sampled: 419.91 m Percent of Stream Length  
 Percent Sampled: 8.14 % Culverted: 0.00 %

Measured Pool Area: 2704.34 m<sup>2</sup>  
 Measured Riffle Area: 1350.76 m<sup>2</sup>  
 Measured Rapid Area: 8127.64 m<sup>2</sup>  
 Measured Pond Area: 0.00 m<sup>2</sup>  
**Total Measured Stream Area: 12182.74 m<sup>2</sup>**

|                             |                              |
|-----------------------------|------------------------------|
| <b>Total Spawning Area:</b> | <b>4620.16 m<sup>2</sup></b> |
| <b>Total Rearing Area:</b>  | <b>6997.72 m<sup>2</sup></b> |

**POOL : RIFFLE : RAPID : POND RATIO (%)**

Pool= 22.20 Riffle= 11.09 Rapid= 66.71 Pond= 0.00

**PRODUCTION AREA CALCULATIONS**

| Reach       | Sockeye | Chum    | Pink | Coho    | SR Outthroat | Chinook | Steelhead | Res CT/RB | Bull    | Brook | Brown |
|-------------|---------|---------|------|---------|--------------|---------|-----------|-----------|---------|-------|-------|
| Reach 1     | 0.00    | 836.83  | 0.00 | 1938.23 | 1938.23      | 0.00    | 1938.23   | 1938.23   | 1938.23 | 0.00  | 0.00  |
| Reach 2     | 0.00    | 1292.58 | 0.00 | 1057.38 | 1057.38      | 0.00    | 1057.38   | 1057.38   | 1057.38 | 0.00  | 0.00  |
| Reach 3     | 0.00    | 0.00    | 0.00 | 1065.34 | 1065.34      | 0.00    | 1065.34   | 1065.34   | 1065.34 | 0.00  | 0.00  |
| Reach 4     | 0.00    | 0.00    | 0.00 | 1645.34 | 1645.34      | 0.00    | 1645.34   | 1645.34   | 1645.34 | 0.00  | 0.00  |
| Reach 5     | 0.00    | 0.00    | 0.00 | 287.91  | 287.91       | 0.00    | 287.91    | 287.91    | 287.91  | 0.00  | 0.00  |
| Reach 6     | 0.00    | 0.00    | 0.00 | 700.00  | 700.00       | 0.00    | 700.00    | 700.00    | 700.00  | 0.00  | 0.00  |
| Reach 7     | 0.00    | 0.00    | 0.00 | 303.53  | 303.53       | 0.00    | 303.53    | 303.53    | 303.53  | 0.00  | 0.00  |
| Reach 8     | 0.00    | 0.00    | 0.00 | 0.00    | 0.00         | 0.00    | 0.00      | 0.00      | 0.00    | 0.00  | 0.00  |
| Reach 9     | 0.00    | 0.00    | 0.00 | 0.00    | 0.00         | 0.00    | 0.00      | 0.00      | 0.00    | 0.00  | 0.00  |
| Reach 10    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00         | 0.00    | 0.00      | 0.00      | 0.00    | 0.00  | 0.00  |
| Total area* | 0.00    | 2129.41 | 0.00 | 6997.72 | 6997.72      | 0.00    | 6997.72   | 6997.72   | 6997.72 | 0.00  | 0.00  |

\* Spawning habitat used for sockeye, chum and pink, rearing used for all other species.

**ADJUSTED PRODUCTION AREAS**

| Reach       | Sockeye | Chum    | Pink | Coho    | SR Outthroat | Chinook | Steelhead | Res CT/RB | Bull    | Brook | Brown |
|-------------|---------|---------|------|---------|--------------|---------|-----------|-----------|---------|-------|-------|
| Reach 1     | 0.00    | 836.83  | 0.00 | 1714.17 | 1714.17      | 0.00    | 1714.17   | 1927.96   | 1927.96 | 0.00  | 0.00  |
| Reach 2     | 0.00    | 1292.58 | 0.00 | 935.14  | 935.14       | 0.00    | 935.14    | 1051.77   | 1051.77 | 0.00  | 0.00  |
| Reach 3     | 0.00    | 0.00    | 0.00 | 942.18  | 942.18       | 0.00    | 942.18    | 1059.69   | 1059.69 | 0.00  | 0.00  |
| Reach 4     | 0.00    | 0.00    | 0.00 | 1455.14 | 1455.14      | 0.00    | 1455.14   | 1636.62   | 1636.62 | 0.00  | 0.00  |
| Reach 5     | 0.00    | 0.00    | 0.00 | 254.63  | 254.63       | 0.00    | 254.63    | 286.39    | 286.39  | 0.00  | 0.00  |
| Reach 6     | 0.00    | 0.00    | 0.00 | 619.08  | 619.08       | 0.00    | 619.08    | 696.29    | 696.29  | 0.00  | 0.00  |
| Reach 7     | 0.00    | 0.00    | 0.00 | 268.44  | 268.44       | 0.00    | 268.44    | 301.92    | 301.92  | 0.00  | 0.00  |
| Reach 8     | 0.00    | 0.00    | 0.00 | 0.00    | 0.00         | 0.00    | 0.00      | 0.00      | 0.00    | 0.00  | 0.00  |
| Reach 9     | 0.00    | 0.00    | 0.00 | 0.00    | 0.00         | 0.00    | 0.00      | 0.00      | 0.00    | 0.00  | 0.00  |
| Reach 10    | 0.00    | 0.00    | 0.00 | 0.00    | 0.00         | 0.00    | 0.00      | 0.00      | 0.00    | 0.00  | 0.00  |
| Total area* | 0.00    | 2129.41 | 0.00 | 6188.79 | 6188.79      | 0.00    | 6188.79   | 6960.63   | 6960.63 | 0.00  | 0.00  |