

SITE INFORMATION

Site Identifier : SS11RB1 **Landowner Type :** Federal
Site Name : Little Beaver Creek **Landowner Name :** USFS
WRIA : 05.0422A **Address :**
Region : NS **Address2 :**
Trib to : SF Stillaguamish R **City :**
River Mile : 57.30 **State :**
River System : SF Stillaguamish R **Zipcode :**
Legal Description : SW1/4S23T30NR9E **Phone :**
County : Snohomish
Habitat Type : terrace tributary

Coordinates

East: 1,726,789.00 **North:** 999,278.00

Directions :

From Granite Falls take the Mt. Loop Highway approximately 19 miles to Camp Silverton on the right hand side. Site is located on the west edge of the camp.

Area Overview :

Site is a series of three surface streams that flow into relic river channels forming a complex of rearing habitat types, including wetlands, sloughs, low gradient streams and more moderate gradient channels with good spawning habitat.

Field Survey Information

Date : 9/14/02 **Observer :** Barkdull **Survey Type :** initial

HABITAT INFORMATION

Water Source: Spring Groundwater Surface runoff

Flow: Intermittent Year-round

Estimated Flows (cfs): Lower end: 0.2
Upper end: 0.1

Water Temperature(C): Lower end:13
Upper end:13

Receiving Water Temperature (C): 13

Other Observations:

Site Area Measurements: Indirect Direct Combination
 Widths: Channel:2.5 Ponds:15 Wetlands:5
 Depths: Channel: 0.1 Ponds:0.4 Wetlands:0.1
 Total length (includes ponds and wetlands):1909

Total existing habitat area (est. m2):10910

Spawning area:	Mainstem:170	Tribs:351	Total: 521
Impounded area:	Mainstem:5082	Tribs:1020	Total: 6102
Other rearing area:	Mainstem:2863	Tribs: 1945	Total: 4808
Unaccessible habitat:	Mainstem:	Tribs:	Total:

Spawning habitat conditions: None Poor Fair Good Excellent

Describe spawning habitat: Spawning habitat occurs in patches throughout the site in both the tribs and in the mainstem.

Rearing habitat conditions: None Poor Fair Good Excellent

Describe pond and other rearing habitat: Site has a good mix of low gradient habitat. There are two large wetlands/pools with good cover in the form of LOD, brush, trees, stumps and various kinds of instream vegetation. Many of the low gradient "stream like" reaches have skunk cabbage and lots of wood. Extremely good high quality rearing habitat throught the site. The whole site is under an old growth canopy.

Describe unaccessible habitat:

Wetland type: Bog Marsh Scrub-shrub Forested

Describe: Site has some forested wetlands in the middle and lower reaches, scrub-shrub in the upper end, with marsh in the middle .

Flooding potential: Low Medium High

Describe: Site is on a bench well above the river. The largest trib on the far eastern side is rather flashy. The other tribs are very stable.

FISH INFORMATION

Site entry condition: Poor Fair Good

Describe: Fish have good access into the lower end of the site but a partial blocking culvert under the Mt. Loop Highway limits access especially for juveniles.

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

Describe: Juveniles were observed in good numbers on the day of the survey, adults have been observed spawning in the past.

Other species acces and use: Chum Pink Sockeye Chinook Trout

Describe: Both cutthroat trout and bull trout were observed on the day of the survey, steelhead use is probable.

ENHANCEMENT OPPORTUNITIES

Project type: Culvert replacement

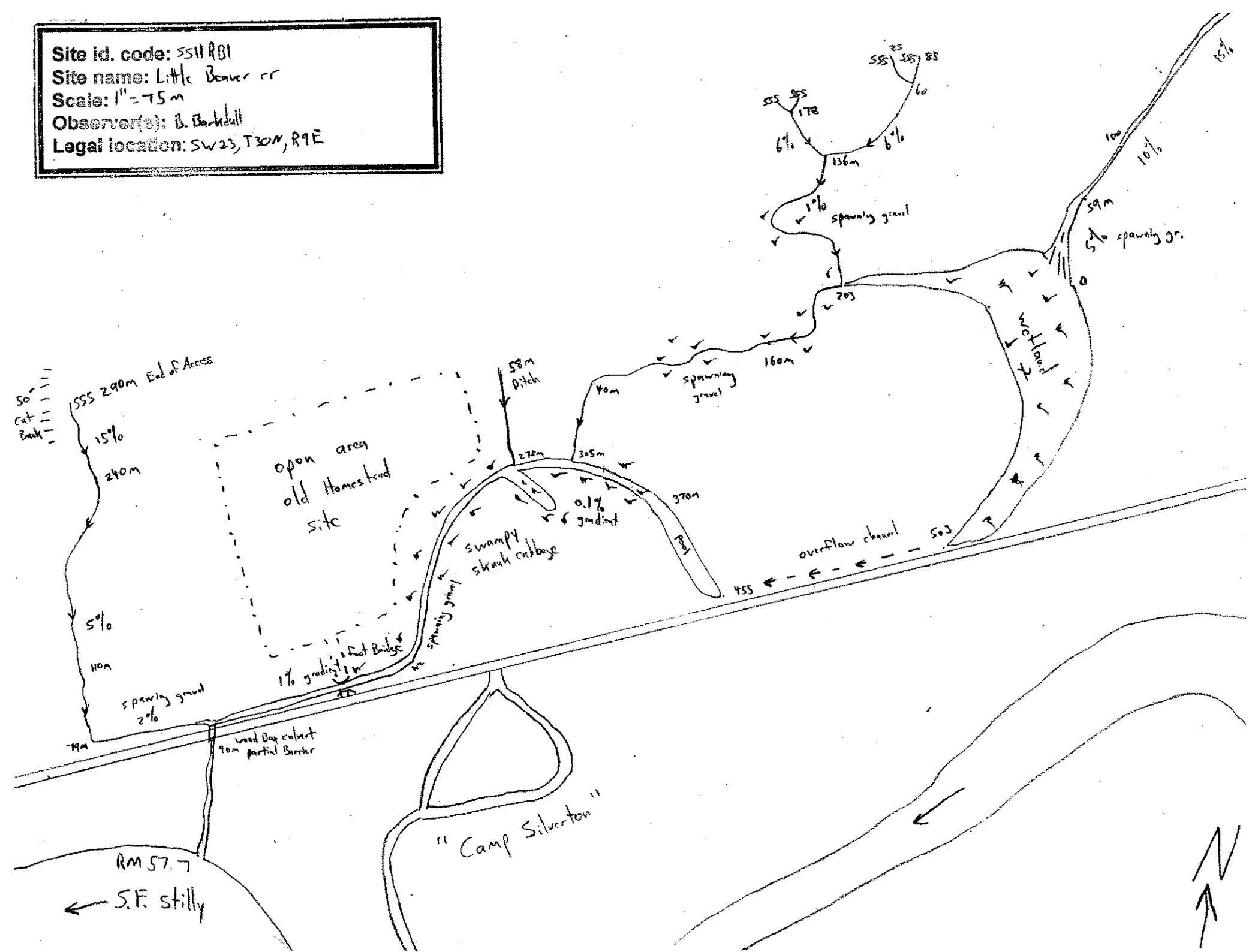
Equipment access: Fair.

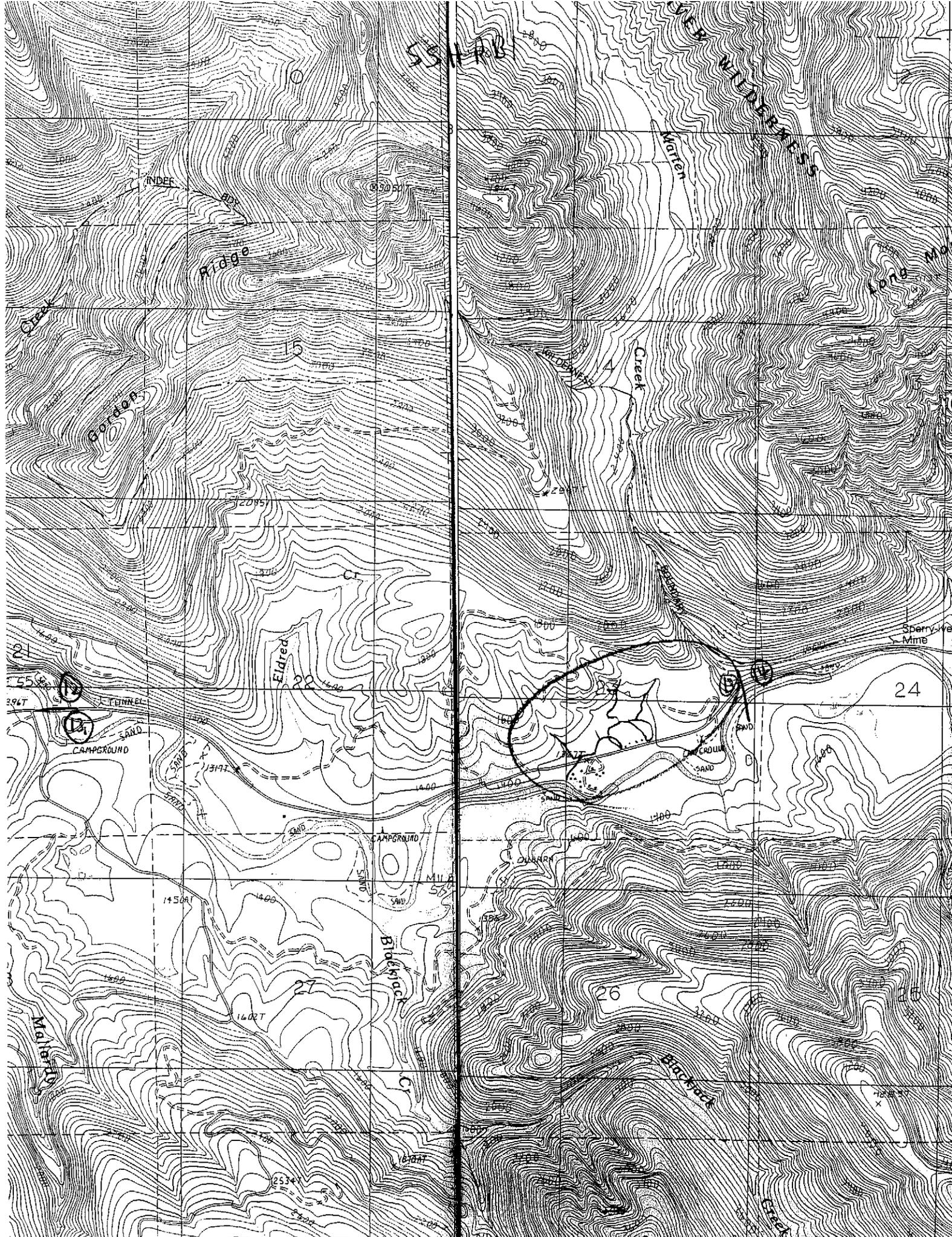
ADDITIONAL COMMENTS: A priority index of 12.35 was generated for the site. The wooden box culvert has approximately 15 feet of fill with limited room to work. Pipe would need to be removed and replaced.

ATTACHMENTS AVAILABLE

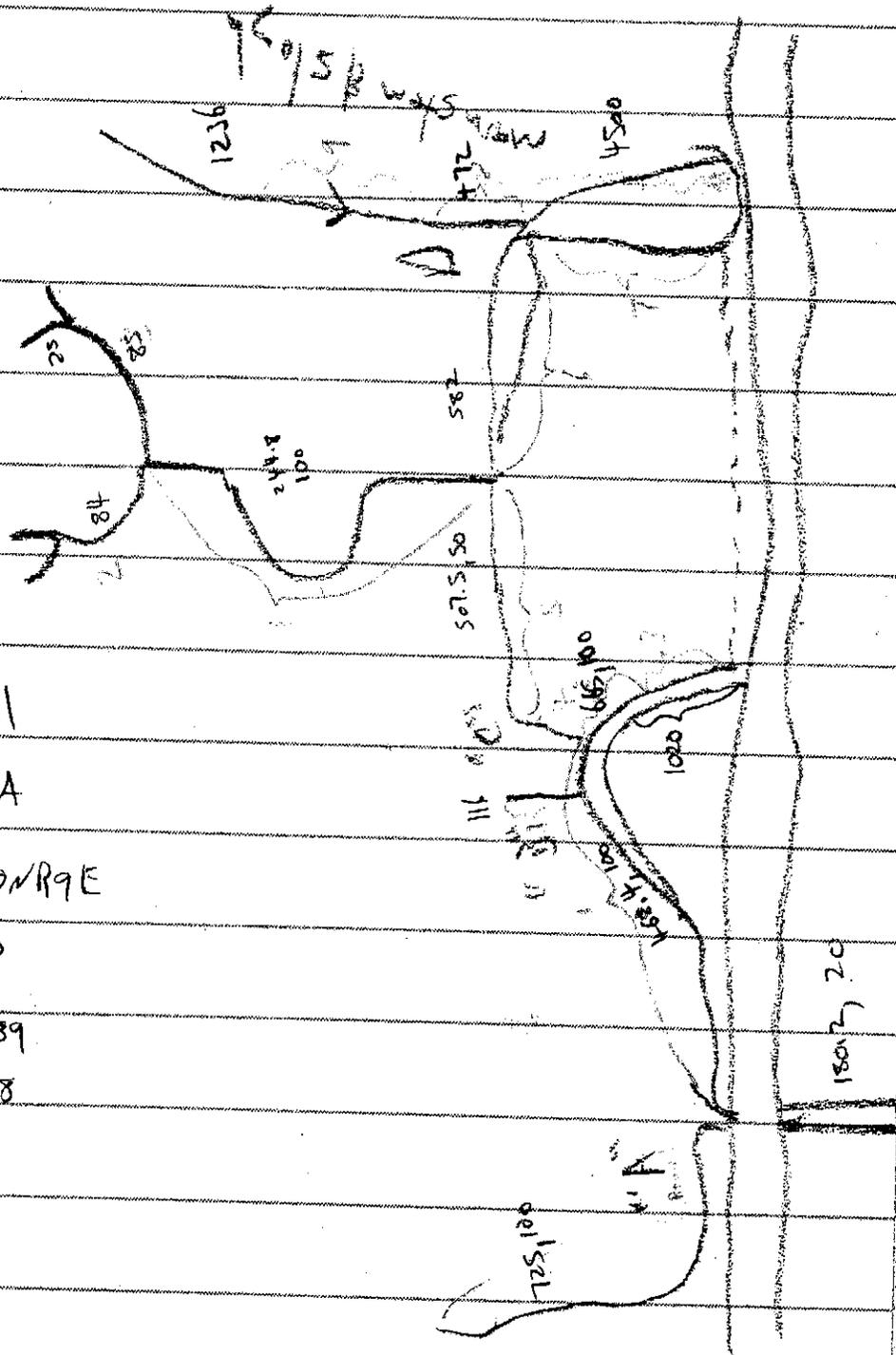
Aerials Sketch Maps Spawning Surveys Juvenile Trapping
 Other References

Site id. code: 5511 R81
Site name: Little Beaver cr
Scale: 1" = 75 m
Observer(s): B. Buckdull
Legal location: SW 23, T30N, R9E





Overview



SS II RBI

OS.0422A

SW 23, T 30N R 9E

RMS 7.3

X 1726789

Y 999278

9/14/02 S.F. still, Little Beaver Survey
River S6 Stream S6

0.2 cfs

0. at mouth

90.1 4.5 ^{80 B} 2.0 v, 2% ^{grad}
at culvert 4%

107.7 upstream end of culvert

110.0 RB track, first sample on mainstem

114 4.1, 1.4, 0.2 Pool bank

147 2.4, 6.0, 0.6 Pool

151 1.8, 5.1, 0.2 Riff 1% graded

157 2.1, 5.5, 0.2 Pool

159 2.4, 4.5, 0.1 Riff

170 2.8, 4.0, 0.2 Pool

Gr. 5, Sand 40, Cobble 50, Boulder 5

more or less a River snail ^{sketch of}

~~275~~ Day RB trap

throughout

305 RB trap 50% of flow

Cont.

305 new sample Reach 2 all sand

316 2.1, 7.0 0.2 Pool

318 2.0 7.0 0.1 AF

326 2.1 7.0 0.2 Pool

329 2.4 7.0 0.1 AF

335 3.0 7.0 0.2 Pool

370 Dry now, Pond in winter

455 12 m wide in winter

Reach # 3 all sand

Trib "A" Reach 4 % sand, 20 Sand

0 540 0.05 m/s

4.0 2.1 0.8 0.01 R.F

7.1 2.2 1.5 0.3 Pool

16.8 2.5 1.1 0.01 R.F

27.1 2.8 1.0 0.2 Pool

30. 2.5 0.9 0.02 R.F

45 m small backwater 5 m long

to 30 m is 80% gravel, 20% sand
changes then

Reach 5 starts at 30 m

79 m 2% gradient

160

166 2.1, 0.5, 0.1 Pool

172 2.3 0.7 0.01 P.F

179 4.1 0.6 0.1 Pool

186 3.1 0.4 0.01 P.F

190 3.3 0.4 0.1 Pool

Stagnant 20% sand 10 cobbles 35 B.

could stop at 200

240 Pools of gradient

295 too steep

trib "B" Reach 6 Dry

58 m 2.0 wide ditch 60%

gradient, 10% grad, 96 sand
Flows in water

Reach 7

trib "C" 52" 10% grad, 30 sand 60 coll

0 3% gradient

7.3 3.0 1.9 0.1 R.F

12.7 2.8 0.9 0.2 Pool

18.4 4.0 1.2 0.1 R.F

23.1 2.8 2.5 0.3 Pool

LD trib Dry

28.2 1.5 0.8 0.1 R.F

30.0 1.5 0.9 0.2 Pool

40 on top of bench New reach 8

160

105

300

235

205

140

160

low
gradient

struck
cabbage

40



start sample at 75 10%

75

87 2.4 1.6 0.1 RP

96 3.1 2.1 0.1 RP

105 3.2 1.8 0.1 RP

40% gravel, 60 sand

136 ~~133~~ ^{RP} turb

continue new sample

148 1.5, 1.2 0.1 RP

150 2.6 1.8 0.3 Pool

166 1.8 1.0 0.1 RP

50/50 gravel/sand

6% gravel

178 splits end of line

back to 136

136 new sample

15 1.8 LS a1 Pool

2 1.8 0.8 0.1 PPT

12 2.1 2.0 0.2 Pool

13 2.1 0.5 0.1 PPT

17 2.0 1.8 0.1 Pool

19 2.0 0.6 a1 R

23 2.4 2.0 0.2 P

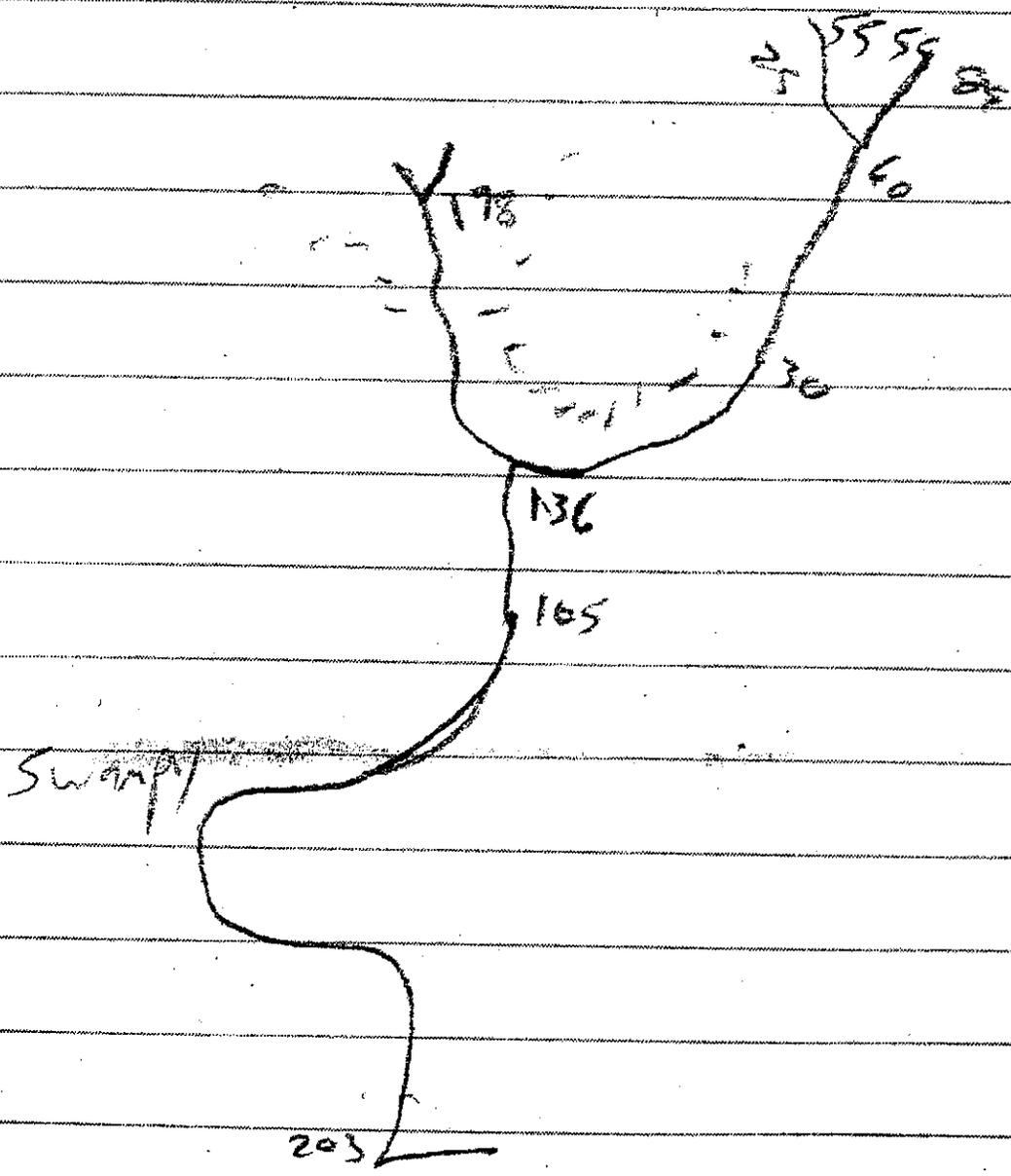
30 2.0 0.2 0.1 R

50% gravel, 50% sand

(also still present)

60 splits

85 end



Trub "D" From Highway

150 x 30 wide swale

59 m to end of Alluvium 8 m wide

#265 end Cascade 8 m

Stream climbs fast

no spawning habitat all
riffles, turning to cascades

Alluvial fan 50% gravel

20 Boulder, 20 cobbles, 10 sand

