



dam 3 to 4 m long dam situated at the upper end of the incised portion of the channel, appears impassible at present but may be submerged during moderate to high freshets. This lower dam forms a small v-shaped pond. Both arms of this small, deep pond extend upstream about 20 to 30 m until they encounter separate sections of a second very large (and extensive) beaver dam.

The large upper dam is 20 to 25 m long and has a maximum height of at least 1.5 m. The dam appears very restrictive to juvenile fish passage. Submergence of this dam by river backwater would only occur during the very highest freshets of the year. During periods of heavy run off fish might possibly work their way around the dam via unblocked overflow channels. A large, fairly extensive, u-shaped beaver pond is created by this upper dam.

The east arm of the large pond is some 150 m long and 4 to 6 m wide. Maximum water depth here is around 60 to 80 cm with an average depth of 30 to 60 cm. Little, if any flow, emanates from this arm of the pond. Most of the water appears backed into the channel by the dam. Above the present wetted reach of the east arm, the channel continued for a some distance as a shallow, muddy, well vegetated depression until it reaches the base of the terrace wall.

The west arm of the large pond is considerably larger than the east arm. Here the water surface is as much as 40 m wide. The "open water" area is from 100 to 150 m long. Maximum water depth appears to be from 1 to 1.5 m. Above the "open water" area the channel continues for another 120 to 150 m as a wide, shallow marsh. This area supports a fairly dense stand of sedges and partially flooded 10 year old alder trees.

The west arm of the pond is largely wall-based with a 6 to 10 m high terrace wall along much of the right bank. Several small to medium sized, spring fed tributaries (at 8 to 8.5 C) were seen entering the pond from off of this wooded terrace wall.

The area surrounding the pond is rather heavily wooded with mature evergreens and alders. Likewise the area between the east and west arms of the pond is also wooded with mature trees. The latter area is somewhat marshy. During periods of heavy run off, when the pond's at maximum capacity, the two arms may become connected in the wooded marsh.

Aside from the obvious fish accessibility problems, the ponded areas of ED-R1-01 look great. Lots of shade and lots of "in pond" cover is available. Apparently some salmonids have managed to gain access to the pond as a few were seen "popping" the surface. Whether these fish are coho or trout, migrants or residents remains to be seen.

To make the habitat more accessible while maintaining the present pond might require a major project here. The dams show lots of evidence of recent beaver activity. Machine access would be possible with a little effort. If the pond cannot be made more fish accessible, ED-R1-01 may be a good site to consider for fall plants. A short access road to accommodate a planting truck might be possible. Packing fish into the pond in back pack cans or planting via helicopter might also be options to consider. The pond area seems to be quite stable. It appears much the same on the 1981 and 1990 aerial photos. Need to monitor flow and water conditions here throughout the year. Need to set minnow traps next fall to determine current extent of coho utilization.

**DATE:** 4/23/91

**OBSERVER:** King/Young

No rain for 13 days. Less than 1 cfs at this time. Entrance looks good. Need to observe at high flows. May be a candidate for a fryway of some sort.

**DATE:** 4/16/92

**OBSERVER:** King

3.5 inches of rain since April 1. 1.5 inches in past 24 hours. Lower dam has developed a hole at the base of the dam and lower pond has drained. Upper dam has water flowing through it rather than over. Water level is about 12" below top of dam. Low precip. in past 6 weeks is the reason.

Possible work here could be to install controls to step up through narrow left bank side channel and install impassable control below upper beaver dam.

Saw several juvenile fish hitting surface of pond.

**DATE:** 2/24/93

**OBSERVER:** Ron Darrow

Minnow traps were baited with salmon roe acquired at the Solduck Hatchery. The narrow portion of the pond closest to the river was dry at this time.

**MINNOW TRAPPING REPORT**

TRAP	DATE SET	TEMP	DATE PULLED	TEMP	COHO	CATCH TROUT			COTTID
						RBT	CUTT	0+	
1	2/24		2/25		0	0	0	0	10
2	2/24		2/25		0	0	1	0	2
3	2/24		2/25		0	0	0	0	7
4	2/24		2/25		0	0	1	0	8
5	2/24		2/25		0	0	0	0	12
6	2/24		2/25		0	0	0	0	4
7	2/24		2/25		0	0	0	0	6
8	2/24		2/25		0	0	1	0	4
9	2/24		2/25		1	0	0	0	0
10	2/24		2/25		0	0	1	0	3
<b>TOTALS:</b>					1	0	1	0	56

**DATE:** 10/93

**OBSERVER:** Nettnin

The blown out beaver dams were removed.

**DATE:** 8/16/99 - 10/20/99

**OBSERVER:** Nettnin

A cutoff wall was constructed to replace an old beaver berm. This wall impounds the marsh and modifies the channel so the water will egress through a swale and re-enter the channel downstream about 30m. This modification eliminates the need to build a fishway.

**DATE:** 11/8/99

**OBSERVER:** Nettnin

The marsh has filled with water and the egress is developing nicely. Woody debris was added and some small pools were dug at the confluence with the old channel. There is some seepage through the wall.

**DATE:** 4/22/00

**OBSERVER:** Darrow

Pond was full to within 1.5 - 2.5 inches of the weir. There is evidence of some erosion from overspill on the right bank side of planks (low spot). There is seepage through the fill and along the plank weirs; it is not serious. There was a small, low beaver dam at the outlet. Observed a large amount of surface activity - it appears that there are numerous fish in the pond.

**DATE:** 11/14/00

**OBSERVER:** King

Project looked good. There was a small pile of sticks upstream from the outlet weir. Did not disturb since it was still fish passable. No fish were seen.

DATE: 12/22/00

OBSERVER: Darrow

**MINNOW TRAPPING REPORT**

TRAP	DATE		DATE		CATCH			COTTID
	SET	TEMP	PULLED	TEMP	COHORBT	CUTT		
1	12/21	7.5°C	12/22	6.5°C	0	0	0	5
2	12/21	7.5°C	12/22	6.5°C	6	0	0	7
3	12/21	7.5°C	12/22	6.5°C	2	0	0	2
4	12/21	7.5°C	12/22	6.5°C	1	0	0	6
5	12/21	7.5°C	12/22	6.5°C	1	0	0	0
6	12/21	7.5°C	12/22	6.5°C	0	0	0	0
7	12/21	7.5°C	12/22	6.5°C	3	0	0	14
8	12/21	7.5°C	12/22	6.5°C	5	0	0	8
9	12/21	7.5°C	12/22	6.5°C	3	0	0	30+
10	12/21	7.5°C	12/22	6.5°C	2	5	0	0
<b>TOTALS:</b>					23	5	0	72+

Average size: 90.4 mm    STD: 10.4    Min-Max: 67-109    Count: 23 fish

**COMMENTS:**

- Trap 1 was placed half way up the pond area, upstream of plank control on the right bank.
- Trap 2 was placed downstream of trap 1 on the right bank.
- Trap 3 was placed directly upstream of plank control on the right bank.
- Trap 4 was placed directly upstream of plank control in the middle.
- Trap 5 was placed directly upstream of plank control on the left bank.
- Trap 6 was placed on left bank, downstream of pocket pool.
- Trap 7 was placed on left bank pocket pool.
- Trap 8 was placed on left bank upstream of pocket pool.
- Trap 9 was placed upstream of trap 8.
- Trap 10 was placed upstream of trap 9 near upper end.

DATE: 3/11/01

OBSERVER: Darrow

Lower than normal precipitation this winter and early spring. Pond is several inches lower than this time last year. There still about 1/3 cfs outflow. There were two small beaver dams in the outlet area but they were passable. Observed a few surface rises on the pond. There are still some right bank seeps where braces were added. There is a bow developing in the second arch, from the right side. It appears that it could get worse with time. This site received a tote of coho carcasses this fall from the Sol Duc Hatchery.

**MINNOW TRAPPING REPORT**

TRAP	DATE		DATE		CATCH			COTTID
	SET	TEMP	PULLED	TEMP	COHORBT	CUTT		
1	5/6	11°C	5/7	9°C	0	0	0	39
2	5/6	11°C	5/7	9°C	0	0	0	12
3	5/6	11°C	5/7	9°C	0	0	0	31
4	5/6	11°C	5/7	9°C	0	0	0	11
5	5/6	11°C	5/7	9°C	0	0	0	27
6	5/6	11°C	5/7	9°C	0	0	0	9
7	5/6	11°C	5/7	10°C	0	0	0	19
8	5/6	11°C	5/7	10°C	0	0	0	14
9	5/6	11.5°C	5/7	10°C	0	0	1	13
10	5/6	11.5°C	5/7	10°C	0	0	0	26
<b>TOTALS:</b>					0	0	1	201

**COMMENTS:**

- Trap 1 was placed in the upper pond area, upstream of plank control on the right bank.
- Trap 2 was placed downstream of trap 1 on the right bank.
- Trap 3 was placed downstream of trap 2 on the right bank, lower pond area.
- Trap 4 was placed directly upstream of plank control on the right bank.
- Trap 5 was placed directly upstream of plank control in the middle.
- Trap 6 was placed directly upstream of plank control on the left bank.
- Trap 7 was placed on left bank, downstream of pocket pool.
- Trap 8 was placed directly downstream of pocket pool.
- Trap 9 was placed in pocket pool.
- Trap 10 was placed in pocket pool, further up from trap 9.

**DATE:** 10/23/01

**OBSERVER:** Nettnin

Rip-rap and pit-run gravel were placed on the downstream side of the wall. It was used to back fill the eroded area which was caused by water overtopping the wall.

**DATE:** 12/8/01

**OBSERVER:** Darrow

Repairs to the right bank side of the zig-zag control has corrected sagging of the planks and has reduced the seepage. Observed a few fish rises in the mid pond area.

**DATE:** 12/11/01

**OBSERVER:** Darrow

This site received about 75 coho carcasses for nutrient enrichment.

**DATE:** 4/24/02

**OBSERVER:** Nettnin

Installed a wood duck nesting box in the project area. Project looks good.

**DATE:** 7/16/02

**OBSERVER:** Nettnin

Installed three more weirs in the lower project to increase rearing area.

**DATE:** 11/19/02

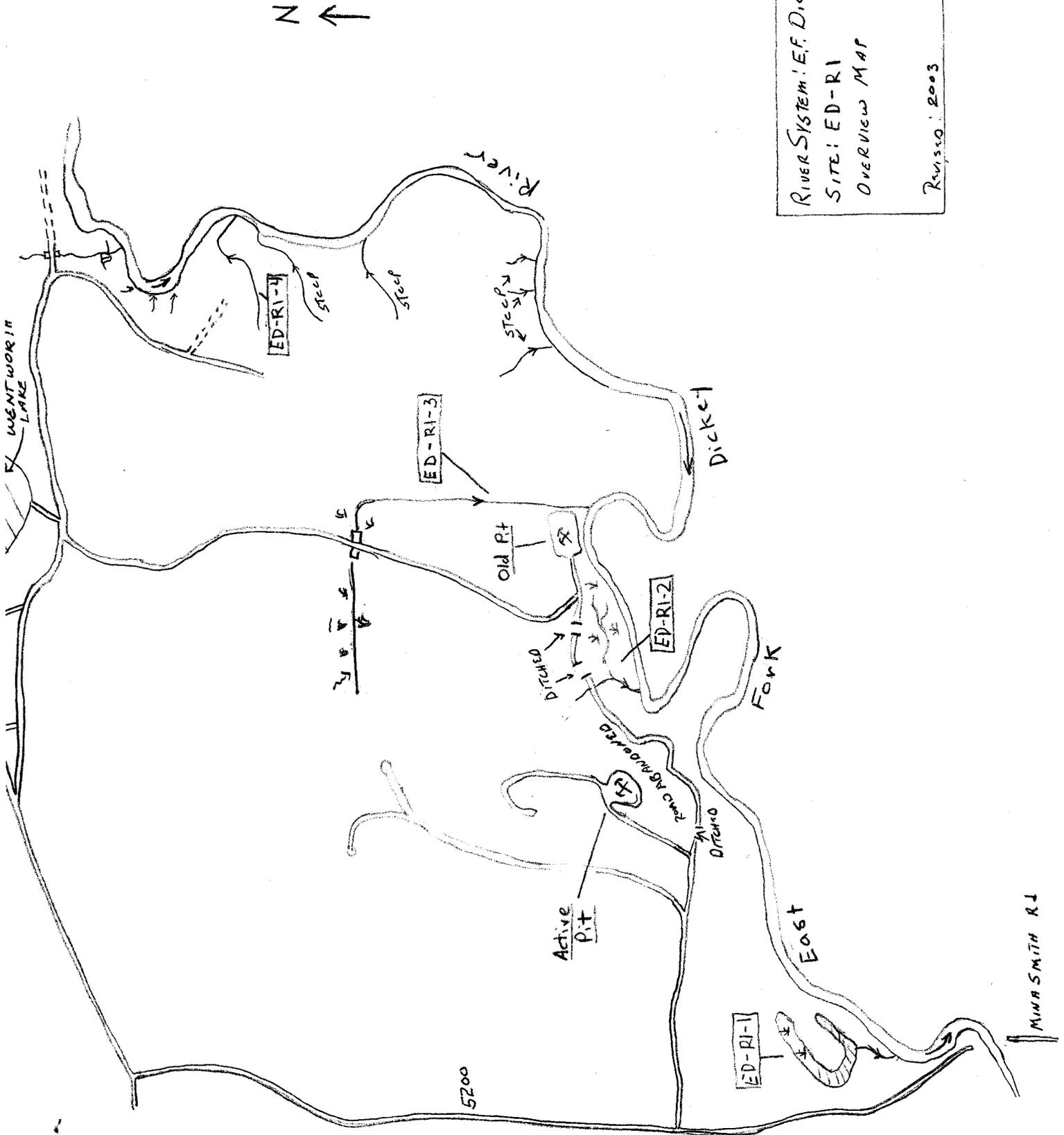
**OBSERVER:** Nettnin

Revisited the site and the project looks good.

**DATE:** 5/1/03

**OBSERVER:** Nettnin

Project looks good. Lots of surface activity. Mallard hen with ducklings. No 0+ fry observed in the channel.



RIVER SYSTEM: E.F. DICKEY  
 SITE: ED-R1  
 OVERVIEW MAP  
 Russo, 2003

