

SITE NUMBER: D-R2-05
LOCAL NAME: Elkhorn Pond
WRIA: 20.0104C

NORTH COAST OFF CHANNEL SITE INVENTORY DATA

RIVER SYSTEM: Dickey **DATE:** 12/12/90 **OBSERVER:** Nettnin

CHANNEL TYPE: Wall-based terrace trib.

TRIBUTARY TO: Hampton Cr. (D-R2-4)

SITE LOCATION: L.B. @ River Mile: 0.05 (Field)

LEGAL DESCRIPTION: NE1/4 S12 T28N R15W

	<u>UPPER END</u>	<u>LOWER END</u>	<u>RIVER TEMP</u>
<u>WATER TEMP:</u>	46 F	48 F	44 F
<u>FLOW (CFS):</u>	< 0.25	1 - 2	

SUBSTRATE TYPE: Silt.

SITE SIZE: **Length-** 270 m. (90 % is beaver pond)
 Width- Water surface = 10 m - 30 m (90 % is beaver pond)
 Channel = Beaver pond.
 Depth- 0.3 - 1.0 m (90 % is beaver pond)

WATER SOURCE: Springs.

DIRECTIONS TO SITE: Head north from Forks on Hwy 101. Turn left just beyond mp 193 (1.0 mi. north of Forks) onto the La Push Rd. Proceed west on La Push Rd about 3.1 miles. Turn right onto the Quillayute Rd. and continue west for 4.0 mi. Turn right onto Mina Smith Rd. (at Quillayute Cemetery) and proceed north about 0.8 mi. Turn left, after crossing the Colby Creek Bridge, onto the 5000 line. Proceed west 1.2 mi. (crossing the Dickey River) then turn left onto the 5003 line. Continue south west along the 5003 to the abandoned rock pit along the south side of the road. Walk south (i.e. downhill) from the pit about 50 m to D-R2-05.

FISH ACCESS AND CURRENT USE: A 1.5 m high beaver dam at the mouth of D-R2-05 appears to block fish access to the pond at present. May be accessible with backwater flooding. No fish were seen.

FLOODING POTENTIAL: Moderate.

LANDOWNER: DNR

COMMENTS & RECOMMENDATIONS: The 1.5 m high beaver dam at the mouth of D-R2-05 (i.e. just above its convergence with D-R2-4) appears to prevent the upstream migration of juvenile salmonids at present water conditions. Heavy floods which occurred earlier this fall may have overtopped the dam or backwatered into the channel enough to allow for juveniles to pass over the dam. The water in D-R2-05 is very clear. The channel appears to offer excellent rearing habitat. Recommend minnow trapping D-R2-05 to evaluate extent of current coho utilization.

GPS: (decimal degrees, Datum WGS84): 11/19/02
upper project - N47.95207, W124.57014
lower project - N47.95186, W124.57139
channel egress - N47.95092, W124.57089

NORTH COAST OFF CHANNEL SURVEY
SUBSEQUENT SITE EVALUATION FORM

River System: Dickey

Channel No.: D-R2-05
Site Name: Elkhorn Pond
WRIA: 20.0104C

DATE: 5/1/91

OBSERVER: Nettnin/King

Nice pond! Clear water and lots of LOD. Beaver dam at lower end of pond is 5.5 feet high. A second 1.5 foot high dam is located about 30 feet upstream from the first dam. Flow was about 1/2 cfs. Channel below the dam has some gravel and coho fry were seen there. Channel entrance at river looks good.

This site would be a good one to look at for installing a fryway.

DATE: 6/26/91

OBSERVER: King

Water temp. = 52° at outlet while the main Dickey was 61°. The pond level above the lower beaver dam was about 18" below the top. Still a trickle of flow. Nearby Hampton creek was dry.

DATE: 11/14/91

OBSERVER: King

Very little flow. No spill over lower dam. Bypass channel may be the way to get fish into this pond.

DATE: 1/23/92

OBSERVER: King

Backwater from Dickey is within 24" of the top of lower beaver dam. Heavy rain overnight (4+ inches). Dam is passable due to flow doing an end run.

DATE: 2/9/92

OBSERVER: Darrow, Slack

There were four minnow traps baited with salmon roe and set in D-R2-05. There were 0 coho, 0 Cutthroat Trout, and 8 cottid captured.

DATE: 8/92

OBSERVER: King, Nettnin

WDF's habitat enhancement section construction crew along with Dave Nettnin and a crew from the Clearwater corrections center altered the egress channel of D-R2-05 to flow into Hampton Creek upstream from where it has entered in the past. This will allow unrestricted fish passage to a 5400 square meter pond. The beaver dams that blocked the original channel have been left in place and a channel was dug along the wall base. At the new confluence an enclosed fishway was constructed to control the pond level and allow fry to migrate in and out of the pond. The design is to discourage beaver from plugging the fishway. To further discourage beaver a fence was constructed just above the inlet to the fishway.

The fishway is constructed with 2 x 12 rough cut cedar. It is eight feet long, four feet wide and five feet high, with a screened lid. It is lined with 3/4 inch plywood, has two weirs and submerged inlet and outlet. The box sits on 4 x 12 and a 4 x 24 inch laminated beams. Cutoff walls extend six feet into the banks on either side to seal off water that would flow around it. Two plank weirs are installed in Hampton Creek to control bedload movement and water level at the outlet of the fishway.

Crew days: 7.2 (crew days based on a 10 man crew working 8 hrs/day).

NORTH COAST OFF CHANNEL SURVEY
SUBSEQUENT SITE EVALUATION FORM

River System: Dickey

Channel No.: D-R2-05
Site Name: Elkhorn Pond
WRIA: 20.0104C

DATE: 12/12/92 - 12/13/92

OBSERVER: Darrow

The minnow traps were baited with salmon roe that was acquired at the Solduck Hatchery. This has been a dryer then normal fall.

MINNOW TRAPPING REPORT

TRAP	DATE		DATE		COHO	CATCH			COTTID
	SET	TEMP	PULLED	TEMP		TROUT			
						RBT	CUTT	0+	
1	12/12		12/13		4	0	0	0	0
2	12/12		12/13		0	0	0	0	0
3	12/12		12/13		0	0	0	0	0
4	12/12		12/13		0	0	0	0	0
5	12/12		12/13		0	0	0	0	0
TOTALS:					4	0	0	0	0

DATE: 1/21/93

OBSERVER: Darrow

Heavy rain and snowmelt caused the Dickey river to back into this channel and the trap and beaver dams were inundated for a short period. No visible damage was done.

DATE: March 1993

OBSERVER: Darrow, Mosely

Installed a downstream migrant trap in the covered fishway to monitor smolt outmigration.

DATE: 12/29/93

OBSERVER: King

Project looks very nice. Good wetland vegetation growth and good flow through fishway.

DATE: 10/5/94

OBSERVER: Darrow & Powell

Very low water level: 4' -5' wide x 4" - 8" deep along middle of the pond. Everything else looked fine. New dam control was installed below old sagging beaver dam. One 0+ coho found alive and well stranded inside lower bay of control box. Observed some sticleback fry in lower end.

DATE: 3/27/95

OBSERVER: Darrow & Powell

Currently trapping downstream. The construction of dam control on S.W. side of pond has increased the flow through control box. We are unable to use the control box as a trapping device due to this higher flow. Screen and a trap box were installed above control. Many sandbags were utilized for the setup due to the soft substrate. Fish at this site were marked with both freeze brands and a injected with a pink elastomer posterior to the eye. Late upststream migrants observed between trap box and control. Downstream migrants have been observed recently.

DATE: 5/9/95

OBSERVER: Powell

The following water chemistry was observed on this date:

pH: 6.5
D.O.: 9 mg/l
Temp.: 11 C
Water Hardness - CaCO3: 44 ppm

NORTH COAST OFF CHANNEL SURVEY
SUBSEQUENT SITE EVALUATION FORM

River System: Dickey

Channel No.: D-R2-05

Site Name: Elkhorn Pond

WRIA: 20.0104C

DATE: 7/31/95

OBSERVER: Nettrin

Excavated a two foot wide channel, about 18 in. deep, from the pond to the fishway. Installed four boulders and four logs at the mouth to enhance the entrance conditions and improve attraction to the site. The logs and boulders were placed by helicopter and then tied together with cable and Hilti epoxy cement.

DATE: 10/23/95

OBSERVER: Darrow

Trap installation was hastened this year due to increasing water levels early in the season; Last year, pond did not fill and attract fish until November. Trap has been fishing well for a week, and fish have been observed between box and fishway. Honor camp crew was brought in to fill sand bags for use in trap installation due to soft bottom. Honor camp crew also trenched the lower end of the pond this summer which will improve outmigration during low water levels.

DATE: 4/3/96

OBSERVER: Darrow

Log structure at confluence is intact. All other structures are okay. Saw surface activity at the lower end of pond but few fish have migrated out.

DATE: 10/22/96

OBSERVER: Powell

We are no longer trapping this site - all material was removed this summer. In 3 weeks pond went from a small shallow pool to ~1/2 way up the dam boards (wet Oct.). Upper creek is flowing and there is ~1.5 CFS flowing in lower end of channel. Attraction structure at entrance is okay and there is some additional debris on top of it.

DATE: 4/6/97

OBSERVER: Darrow

Beaver activity here - outlet pipe at fishway was plugged and a 6 - 7" berm dam had been build along top edge of upstream dam board. Cleared debris from both areas. Logs and cables at confluence are intact and anchor tree is okay. Rises were observed on upper middle pond.

DATE: 10/8/97

OBSERVER: King

- A beaver has constructed a dam behind the fence, but built it high enough to block off the fishway. The dam was lowered enough to make the fishway passable. The project will need to be monitored.
- A tree fell across one end of the cutoff wall. The top portion of the planks are broken back to the log support. It doesn't pose a problem at this time.

DATE: 10/16/97

OBSERVER: Darrow

- Removed the beaver dam and will continue to monitor this site.
- Attraction structure at mouth recruiting debris looks good.

DATE: 3/10/98

OBSERVER: Darrow

Beaver had fishway pipe partially plugged and debris against fence - will have to monitor this site.

DATE: 10/13/98

OBSERVER: Darrow

Pond was very low, no outflow at time of inspection. Dug a 16-18" wide channel through mud along left side of barrier screen. Creek at the confluence was flowing at an estimated 1 cfs and after digging the ditch water began to trickle backwards into the pond from the creek via the outlet pipe. Structure logs and anchor at river confluence are intact. No fish were seen. Visibility was low and murky.

NORTH COAST OFF CHANNEL SURVEY
SUBSEQUENT SITE EVALUATION FORM

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DATE: 4/6/99

OBSERVER: Darrow

Beaver had outlet area dammed so only ~20% of the flow was filter through, the rest of the water was flowing over the spillway (upstream of fishway). Cleared some of the blockage. Will routinely check this spot during downstream migration. Anchor trees, cables and logs at egress are intact. Observed a few rises on the pond.

DATE: 10/13- 12/1/99

OBSERVER: King

On 10/13, the fishway had no obstructions but stop logs are needed in the slots. The pond was not full of water and water was flowing from Hampton Creek into the pond. Everything else looked good. Reviewed the site with Dave Nettnin on 12/1. The pond had filled and water velocity in the outlet pipe was high. Stop logs are needed in the fishway to reduce the velocity.

DATE: 4/10/00

OBSERVER: Darrow

On going beaver activity. This site will need constant monitoring during out migration. Pond was high due to beaver dams. Observed some rises in the upper end of the pond. Structure logs and anchor rocks at confluence are okay.

DATE: 10/4/00

OBSERVER: Darrow

Pond is very low. There is a substantial mud and wood beaver dam at fishway barrier screen. There is also lower, wider one at the overflow area. Honor Camp Crew cleared beaver debris. Structure logs and anchors at river confluence appear to be primarily intact. The outermost anchor boulder has split. The cable is either gone or buried in the substrate. All other structures are okay.

DATE: 3/11/01

OBSERVER: Darrow

Lower than normal precipitation this winter and early spring. Flow was low. This site received a tote of coho carcasses from the Sol Duc hatchery for nutrient enrichment. Carcasses are still evident. No beaver activity but numerous ducks. Egress structure is unchanged. Did not observe any fish or activity.

DATE: 10/10/01

OBSERVER: Darrow/Nettnin

Utilized the Honor Camp Crew for placement of about a half tote of salmon carcasses (50 - 60 coho) throughout the project area. Pond level was low at the time, and water was tannic in color. The creek at the project outlet was flowing. Did not observe any juvenile fish activity. Cable, boulder, logs, and anchor trees at egress appear intact.

DATE: 4/20/02

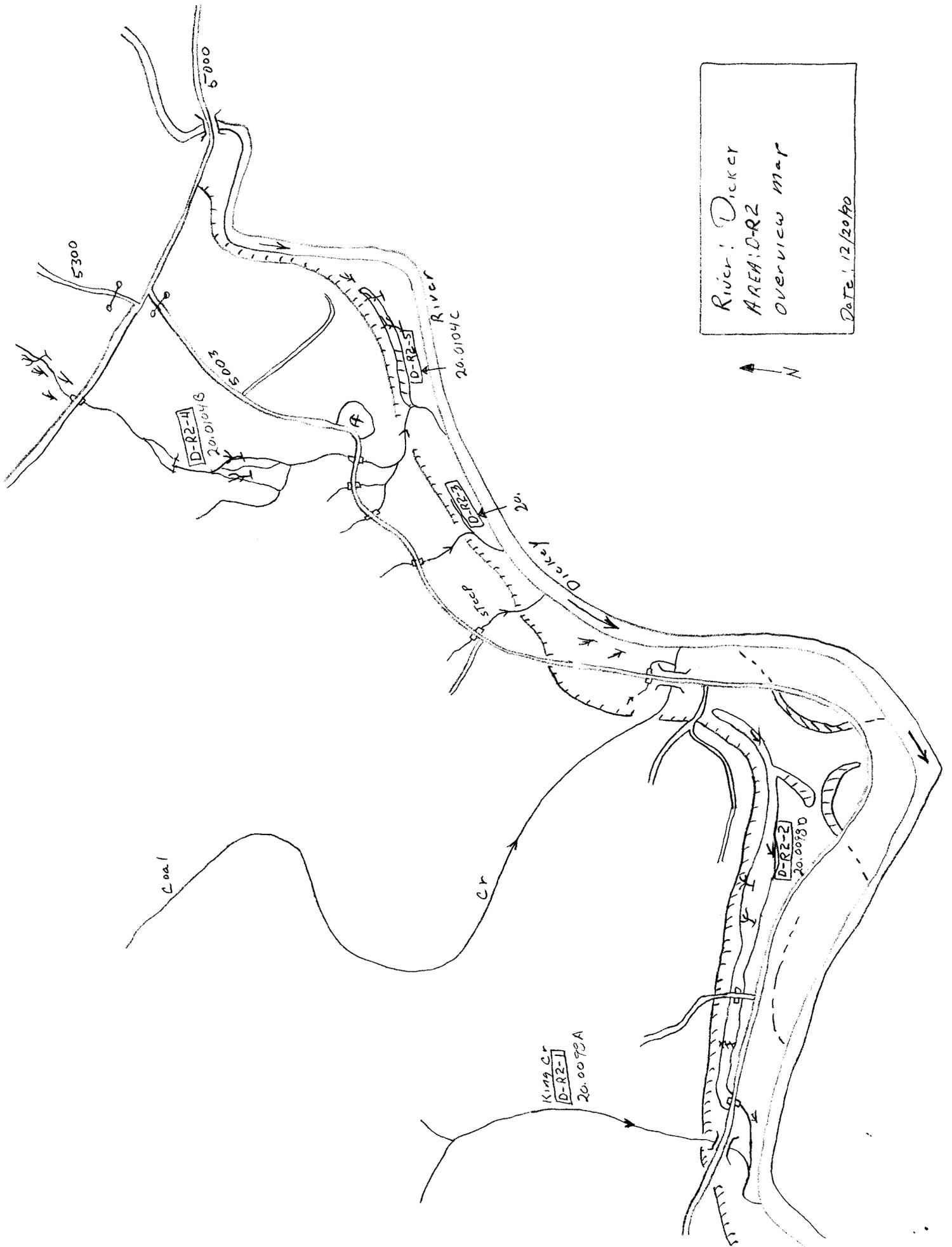
OBSERVER: Darrow

Beaver activity resumed at this site. The barrier screen at fishway had high debris burm and there was debris on the overflow spillway. Pond was very full. Breached the beaver dams and will need to routinely check this site during downstream migration. Salmon carcasses were only partially decayed and had accumulated near the fishway. There may have been additional carcasses placed around this site at a later time by the Pacific Coast Salmon Coalition.

DATE: 3/27/03

OBSERVER: King

Beaver dam at fishway needs modification. Pond needs more cover structures.



River: Dicker
 AREA: D-R2
 Overview Map
 Date: 12/20/90



River: DICKEY
AREA: D-RZ
SITE: D-R2-4, D-R2-5
Local Name: Hampton Creek
and Elkhorn Springs



Revised 1/92, 8/94 (12/90)

