

SITE NUMBER: H-L3-01
LOCAL NAME: Nolan Channel
WRIA: 20.0436L

NORTH COAST OFF CHANNEL SITE INVENTORY DATA

RIVER SYSTEM: Hoh River **DATE:** 7/7/87 **OBSERVER:** Young/Nettlin

CHANNEL TYPE: Overflow

TRIBUTARY TO: Hoh River (20.0422)

SITE LOCATION: L.B. @ R.M. 7.0 - 8.8

LEGAL DESCRIPTION:

UPPER END LOWER END

WATER TEMP.: Dry channel

DISSOLVED OXYGEN: Not taken.

AIR TEMP.: N.A. N.A.

FLOWS (CFS): Dry channel

SUBSTRATE TYPE: Vegetated with a heavy grass cover.

SITE SIZE: **Length-** 440m
 Width- 6 - 10 m
 Depth- 6 - 8' banks

WATER SOURCE: Overflow and run off.

DIRECTIONS TO SITE: North on Highway 101 and turn left just past Nolan Ck. bridge. Follow road to gravel bar and lower end of this channel.

FISH ACCESS AND CURRENT USE: No clear access to this channel.

FLOODING POTENTIAL: Moderate to high.

LANDOWNER: Rayonier

COMMENTS & RECOMENDATIONS: None

DATE: 8/1/96

OBSERVER: King

During the Summer of 1996, WDFW's Habitat Enhancement Section constructed a groundwater-fed spawning and rearing channel. Approximately 1900 feet of this channel was deepened below the surrounding groundwater table and connected to H-L3-02 about 500 feet from its mouth. Six log stream bed controls were installed in the upper channel and a small pond was created at the very upper end. Three side refuge bays were constructed along the channel and spawning gravel was added upstream from each log control. Stumps and small spruce trees were loaded into the channel and anchored. A small berm was constructed across the swale upstream from the upper end of the project to give some added protection from flood flows. At this time, water was not flowing out of the channel into the Hoh river. Not much flow over log controls especially the upper 3 controls.

DATE: 10/10/96

OBSERVER: King

Channel flowing to Hoh River. Juvenile fish seen by crews working in the channel.

DATE: 10/30/96

OBSERVER: King/Cowan

Lots of juvenile salmonids were observed throughout the channel. Hoh River has been up recently and there were indications that water had covered the access road which in turn had backed water into the lower end of H-L3-02.

DATE: 11/5/96

OBSERVER: King

Upslope runoff was creating erosion problems along sections of the channel. Drainage ditches were dug with a backhoe to alleviate this problem. Water level had dropped 6 inches since 10/30.

DATE: 11/5/96

OBSERVER: Powell

A backhoe was on site doing some upper terrace ditching to alleviate runoff over the banks. Vegetation has not taken hold yet and silt substrate was washing down to the channel. There were lots of juvenile fish through out project. Mouth of channel was small at observed flow, but juvenile fish could enter. Channel structures looked great.

DATE: 4/23/97

OBSERVER: Powell, Nettnin, Darrow

Egress has changed (river has moved more left bank) and water flows in several spot across bar where people drive. At present flows, this looks unattractive for upstream movement, but fish are still capable of moving downstream. Backwatering in the channel moved a few stumps but overall, structures held up well. Erosion of the left bank, below trenches on upper terrace, needs to be addressed due to overflow from the trenches. Numerous smolts and fry were observed in mid to lower section of project.

DATE: 8/27/97

OBSERVER: Nettnin

- Replaced cover structures that floated out of the channel during high water.
- Added cover structures to areas that were void of cover.
- Modified egress so stream flows directly across the gravel bar instead of along the area that vehicles drive on.
- Fry were observed throughout the project.

DATE: 10/8/97

OBSERVER: Nettnin

- Added hay to barren areas on banks.
- Project is functioning without any problems.

DATE: 12/8/97

OBSERVER: Darrow

MINNOW TRAPPING REPORT

TRAP	DATE		DATE		COHO	CATCH			COTTID
	SET	TEMP	PULLED	TEMP		TROUT			
						RBT	CUTT	0+	
1	12/7	7.8°C	12/8	7.8°C	9	0	1	0	17
2	12/7	7.5°C	12/8	-	13	0	0	0	9
3	12/7	7.8°C	12/8	7.8°C	16	1	1	0	7
4	12/7	7.8°C	12/8	7.8°C	8	1	1	0	12
5	12/7	8.0°C	12/8	8.0°C	1	0	1	0	10
6	12/7	8.0°C	12/8	8.0°C	7	3	3	0	3
7	12/7	8.0°C	12/8	8.0°C	5	0	3	0	4
8	12/7	8.0°C	12/8	8.0°C	18	4	1	0	3
9	12/7	8.5°C	12/8	8.5°C	2	0	3	0	2
10	12/7	8.5°C	12/8	8.5°C	14	0	1	0	0
11	12/7	8.5°C	12/8	8.5°C	6	0	1	0	6
12	12/7	8.5°C	12/8	8.5°C	18	0	0	0	6
13	12/7	8.5°C	12/8	8.5°C	10	0	7	0	2
14	12/7	7.4°C	12/8	7.4°C	8	0	3	0	2

TOTALS: 135 9 26 0 83

COMMENTS:

- Trap 1 was placed in the furthest downstream wide spot (in project).
- Traps 2 and 3 were placed upstream of trap 1, in the downstream end of project.

- Trap 4 was placed upstream of trap 3, in wide spot below the last, downstream log control (#1).
- Trap 5 was placed upstream of trap 4, in wide spot upstream of the next log control (#2).
- Trap 6 was placed upstream of trap 5, ~16m downstream of log control #4.
- Trap 7 was placed upstream of trap 6, ~10m downstream of log control #5.
- Trap 8 was placed ~4m downstream of the first, upstream log control (#6).
- Trap 9 was placed upstream of trap 8, midway between log control #6 and upstream pond.
- Traps 10 and 11 were placed on the left bank side of upper pond.
- Trap 12 was placed at the furthest upstream end of project.
- Traps 13 and 14 were placed on the right bank side of upper pond.

NOLAN CHANNEL - COHO FORK LENGTHS (mm) 12/97									
Trap 1	90	81	74	105	91	94	80	78	86
Trap 2	83	85	84	92	82	84	88	104	83
	86	79	72	91					
Trap 3	90	87	93	83	93	92	83	95	84
	90	96	112	99	77	77			
Trap 4	77	83	80	84	107	78	75	80	
Trap 5	91								
Trap 6	88	82	88	93	85	78	83		
Trap 7	80	78	84	74	91				
Trap 8	96	84	81	98	86	98	80	88	84
	96	101	93	83	93	94	95	82	110
Trap 9	88	108							
Trap 10	99	99	94	91	93	93	120	104	86
	89	104	103	97	95				
Trap 11	96	99	106	103	85	95			
Trap 12	94	92	90	92	88	87	85	87	93
	90	96	90	90	109	85	97	102	80
Trap 13	96	91	99	106	86	100	88	83	88
	97								
Trap 14	93	95	92	93	94	81	101	98	
AVG	90.44	STD	8.83	MIN	72	MAX	120	COUNT	134

DATE: 3/30/98

OBSERVER: Darrow

Slopes appear stabilized by vegetative growth - both grasses and trees. Armoring appears to be helping in high erosion areas. Observed coho and trout through the project. All controls are fine.

DATE: 3/30/98

OBSERVER: Darrow

MINNOW TRAPPING REPORT

TRAP	DATE		DATE		COHO	CATCH			COTTID
	SET	TEMP	PULLED	TEMP		TROUT	0+		
						RBT	CUTT		
1	3/29	7.0°C	3/8	7.0°C	3	0	1	0	0

2	3/29	7.0°C	3/8	7.0°C	4	0	1	0	0
3	3/29	7.0°C	3/8	7.0°C	6	0	2	0	1
4	3/29	7.0°C	3/8	7.0°C	7	0	0	0	0
5	3/29	7.0°C	3/8	7.0°C	2	0	2	0	2
6	3/29	7.0°C	3/8	7.0°C	5	0	7	0	0
7	3/29	8.0°C	3/8	-	1	1	1	0	5
8	3/29	7.0°C	3/8	7.0°C	3	3	2	0	7
9	3/29	7.0°C	3/8	7.0°C	1	0	0	0	7
10	3/29	7.0°C	3/8	7.0°C	4	0	1	0	1
11	3/29	7.0°C	3/8	7.0°C	8	0	3	0	1
12	3/29	7.0°C	3/8	7.0°C	7	0	0	0	9
13	3/29	7.0°C	3/8	7.0°C	7	0	0	0	14
14	3/29	7.0°C	3/8	7.0°C	14	0	1	0	6

TOTALS: 72 4 21 0 53

COMMENTS:

- Traps 1 - 5 were placed around the top end pond.
- Trap 6 was placed upstream of log controls.
- Traps 7, 8 and 9 were placed between upper end log controls.
- Traps 10 and 11 were placed between the furthest downstream log controls.
- Trap 12 was placed in right bank pool located mid-way in project.
- Trap 13 was placed in left bank pool located in the lower end of project.
- Trap 14 was placed ~80 m upstream with the confluence of the river - in the alders.

NOLAN CHANNEL - COHO FORK LENGTHS (mm) 3/98									
Trap 1	102	110	103						
Trap 2	105	112	112	113					
Trap 3	107	86	106	110	98	95			
Trap 4	103	114	101	99	109	107	75		
Trap 5	102	95							
Trap 6	87	95	102	92	95				
Trap 7	97								
Trap 8	69	87	92						
Trap 9	99								
Trap 10	94	91	94	95					
Trap 11	100	89	85	77	101	88	107	95	
Trap 12	92	69	90	86	94	88	93		
Trap 13	101	94	89	73	93	87	88		
Trap 14	106	89	92	85	89	85	89	95	82
	81	79	83	94	87				
AVG	94	STD	10.29	MIN	69	MAX	114	COUNT	72

DATE: 10/28/98

OBSERVER: Darrow

System was not flowing to river at time of inspection. Bank cover and aquatic vegetation is well established. Observed two cutthroat at midpoint and top end of pool.

DATE: 4/5/99

OBSERVER: Darrow

Channel has filamentous algae growth which is providing cover. Bank erosion areas appear to be stabilizing with grass growth. Observed fry at channel egress and in upper-mid channel. Also, observed smolt size salmonids near the upper end of the channel.

DATE: 11/2/99

OBSERVER: Darrow/Pichahchy

Water was flowing at this time and all structures are intact. A few pre-smolts were seen in some of the lower graveled control bays. Young alders are growing rampantly along channel banks - need to thin them out.

DATE: 4/15/00

OBSERVER: Darrow

Good flow at outlet, no barriers or blocking debris. Bank erosion appears to have ceased. Grasses and willows are well established. Alder seedlings have become dense in areas and need to be pruned. Observed a few fry near the confluence and smolts in the lower channel.

DATE: 10/3/00

OBSERVER: Darrow

Alder is thick along the banks. Good outflow. Numerous salmonids were observed, notably from the twin big spruce to the top end of the system. Observed elk, wood duck and a muskrat too.

DATE: 4/4/01

OBSERVER: Nettnin

Numerous fish were observed in the channel. The hemp rope used to secure some of the stumps appears good but is very weak. The small cable that was used is gone in many places. Where it is present, it is very weak. However, the stumps look like they will stay in place on high water occasions.

DATE: 12/1/01

OBSERVER: Darrow

Visited site during a heavy rainfall. Visibility was poor but did observe some juvenile salmonids in the lower reach. This site is difficult to traverse due to the thick alder growth along the channel parameter especially the left bank side.

DATE: 4/15/02

OBSERVER: Nettnin

The project looks good. Egress channel has improved by forming one channel. Fifteen coho redds were observed this winter. Steelhead were also seen.

DATE: 6/29/02

OBSERVER: Nettnin

Thinned alders along the left bank of the channel. Alders were bundled and placed in the channel for cover.

DATE: 11/20/02

OBSERVER: King

Everything looks good. Lots of juvenile fish. No adult were observed.

GPS: (decimal degrees, Datum WGS84):

upper project - N47.76119, W124.33259

lower project - N47.75764, W124.33061

egress - N47.75682, W124.33112

DATE: 12/18/02

OBSERVER: King

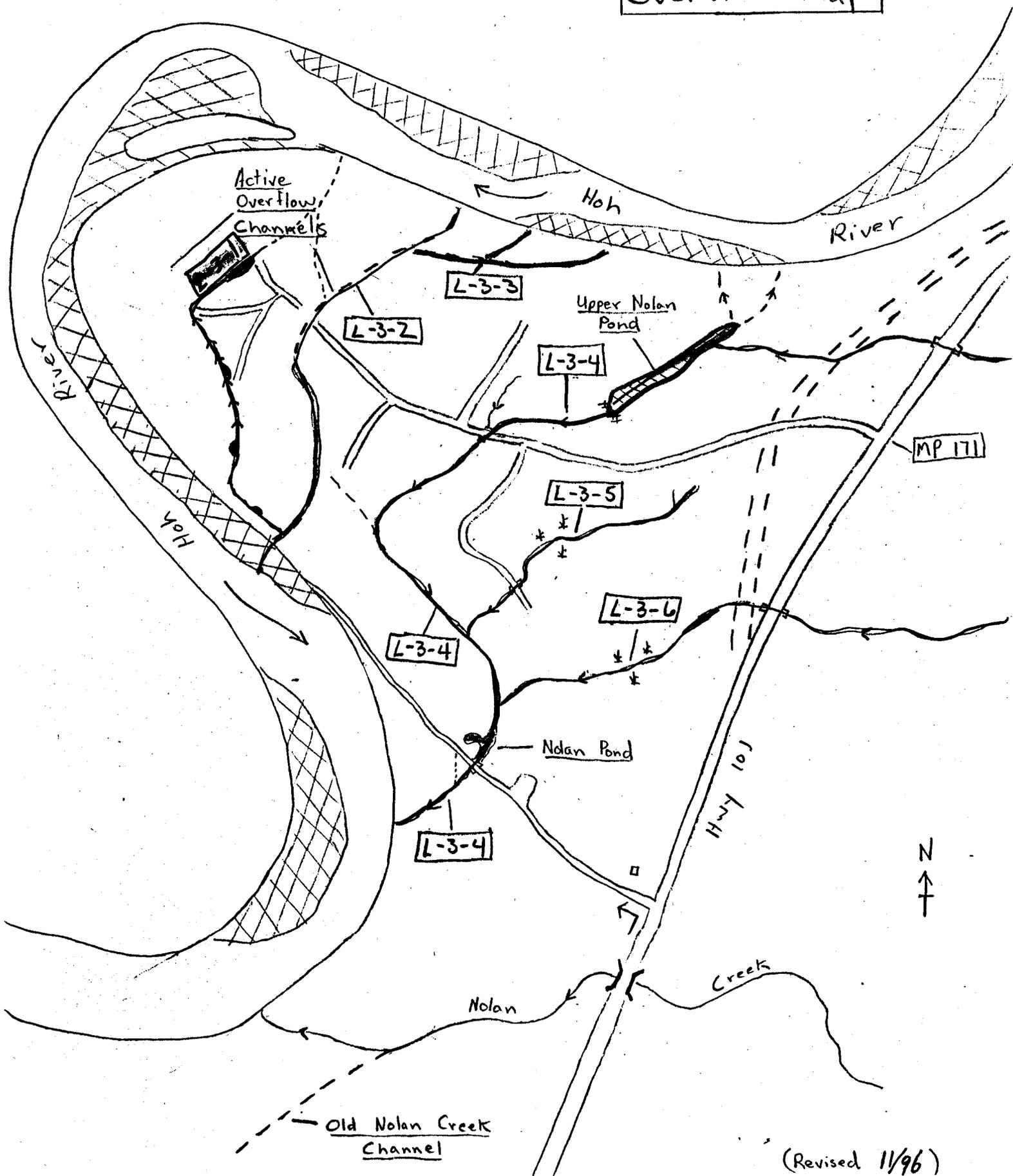
Evidence of gravel disturbance in a few places. No adult spawners observed.

DATE: 10/24/03

OBSERVER: King

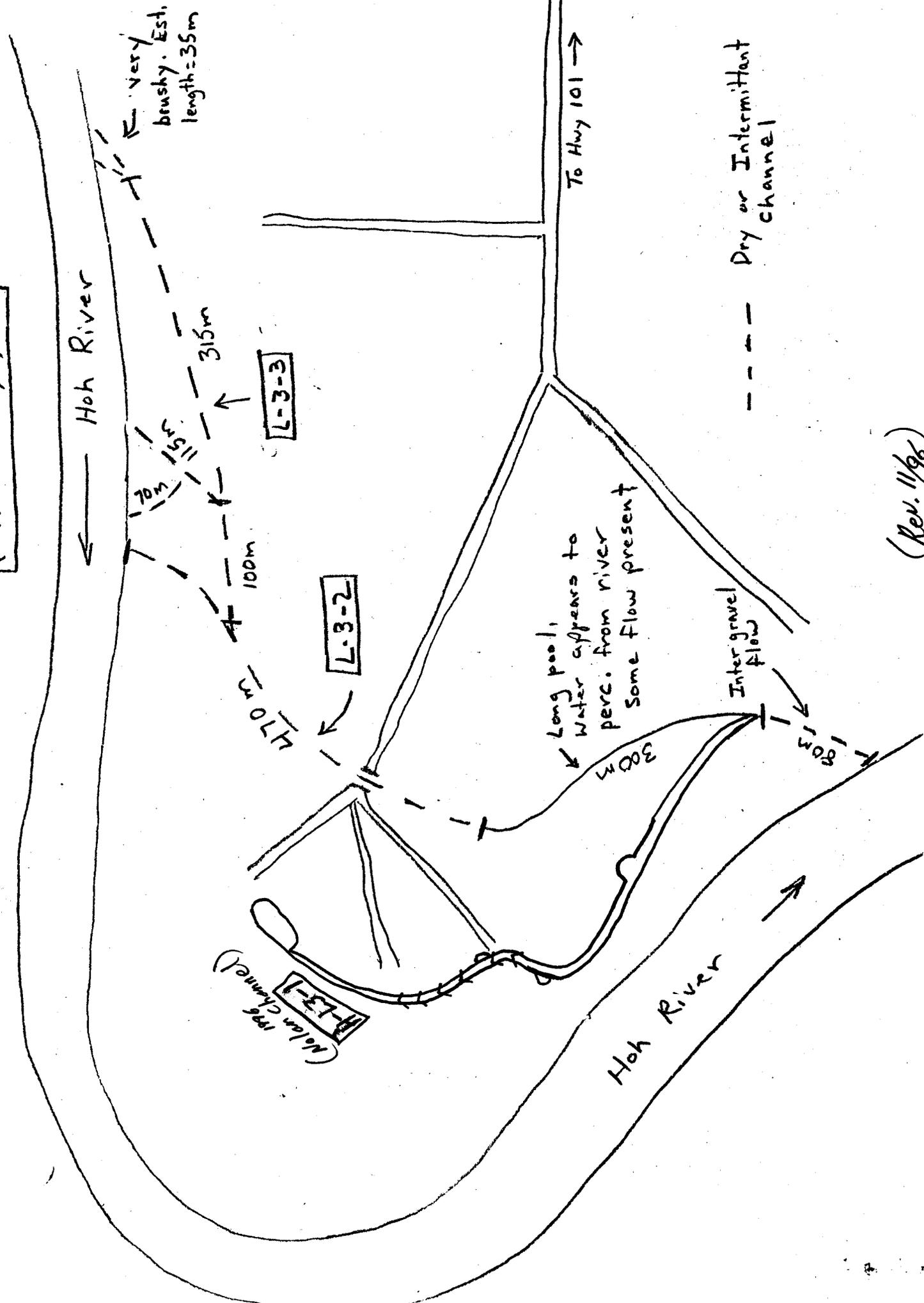
Looks good. Recent high water backed in. No damage. Heavy river flow through side channel. Small dike upstream from upper end of project was slightly overtopped. No erosion.

Hoh River
Site: L-3
Overview Map



(Revised 11/96)

Site: H-L-3
(Channels 1, 2, 3)



(Rev. 11/96)

Hoh River
Site: ~~L-3~~ H-13
Site Map

