

SITE NUMBER: H-457L-01 (was H-R9-02)

LOCAL NAME: Peterson Pond

WRIA: 20.0457A

NORTH COAST OFF CHANNEL SITE INVENTORY DATA

RIVER SYSTEM: Hoh **DATE:** 9/2/87 **OBSERVER:** Young/Nettnin

CHANNEL TYPE: Lower end of valley wall trib. 20.0457 (low gradient)

TRIBUTARY TO: Hoh River (20.0422)

SITE LOCATION: RB @ River Mile - 21.0 - 22.8

LEGAL DESCRIPTION:

UPPER END **LOWER END**

DISSOLVED OXYGEN:

WATER TEMP.: (No D.O. or temperature data taken on this date)

FLOW (CFS): 0.0 (dry) < 0.5

SUBSTRATE TYPE: Sand in lower reaches. Gravel and rubble above.

SITE SIZE: **Length-** Mouth to valley wall= 1565 m . RB trib= 360 m
 Width- Channel width = 8-20 ft (Surface width 0-5 ft)
 Depth- Currently 0-4 in., with pools 2-3 ft

WATER SOURCE: Spring water & valley wall trib. Water only in the lower end at present. Upper reaches are dry.

DIRECTIONS TO SITE: North on Hwy 101. Turn right between mile post 178 and 179 onto the Upper Hoh Valley Road (as if going to the Hoh Rain Forest). Continue on this road for approximately 5 miles until coming to the Minnie Peterson Campground. The Upper Hoh Rd. crosses the lower channel (via a culvert) just east of the campground.

FISH ACCESS AND CURRENT USE: 40 to 50 coho fry were seen in the lower 200 m. Low flow and excessive L.O.D. do not allow rearing in upper reaches. Some winter rearing area may exist.

FLOODING POTENTIAL: Low. Some flash flooding may occur.

LANDOWNER: Peterson and others.

COMMENTS & RECOMMENDATIONS: This trib. has a well defined, deeply cut channel as it comes off the steep side-slope of the valley. As it reaches the flat valley floor it becomes very shallow and less defined. Apparently some attempts have been made to channelize the water. In early land clearing, stumps and debris were pushed into the lower channel. The low gradient has not let the channel clear itself. If opened and allowed to flush, an increase in fish production may be possible.

DATE: 1/5/88

OBSERVER:

H-457L-01 and H-457L-02 : There is currently running water in both channels. The pattern of flow across the pasture area is much more evident than it was during the original survey last summer. Both channels had water running through the culverts under the Peterson driveway. Running water (< 100 gal/min) was also observed in channel H-457L-01 behind the house which is just across the Upper Hoh Rd. from the county yard. The source appears to be groundwater.

Peterson Pond

	Date	Creek at Pond Avg.	Lindner Cr. Egress	Egress Mouth	At Culvert
Pre-Proj.	2-13-89	44°	N.A.	----	----
" "	4-6-89	48°	N.A.	----	----
" "	6-6-89	65°	N.A.	51°	----
Post-Proj.	7-5-89	58°	54°	50°	----
" "	7-13-89	59°	57°	50°	----
" "	7-25-89	----	61°	----	56°
" "	8-1-89	61°	59°	----	53°
" "	8-23-89	69°	63°	----	----

DATE: July 1989

OBSERVER:

A 1/2 acre pond was excavated in the pasture on the left bank side of Lindner Creek with a connecting channel from the pond to the creek.

After completion, water was flowing from the pond to the creek and coho fry were seen moving up the channel.

DATE: August/Sept 1989

OBSERVER:

The outlet channel has dried up.

DATE: 9/19/89

OBSERVER:

Fry/smolt trap installed in outlet.

DATE: 10/12/89

First flow through outlet channel.

DATE: 10/12/89

OBSERVER: Young

Willows have been planted around the pond but have not yet been planted down the channel. Flow in the channel was est. at 0.25 to 0.5 cfs. Took a series of water temps around the pond and down the channel. The water temp of the Hoh was at 10 C and the air temp at mid afternoon was 15 C. Results are listed below:

- East lobes of pond ----- 13.5 C
- South Bank of pond (at root wad) ----- 13.5 C
- S.W. lobe of pond ----- 13.5 C
- Pond outlet (at trap) ----- 13.5 C
- Riffle just below rip rap ----- 14.5 C
- Cattle crossing ----- 15.0 C
- Mouth of channel ----- 15.0 C
- Lindner Cr. (above mouth of H-457L-01) ---- 12.0 C

DATE: 10/17/89

OBSERVER: Young

The egress channel is mostly dry with just a few isolated pools. Took a series of water temps around the pond and down the channel and established water temperature stations (by driving stakes at each site). Results are listed below:

- Sta. #1 = NE lobe of the pond ----- 14.5 C
- Sta. #2 = East lobe of the pond ----- 13.5 C
- Sta. #3 = South bank of pond (at root wad) -- 12.5 C
- Sta. #4 = SW lobe of the pond ----- 12.5 C
- Sta. #5 = Outlet of pond ----- 14.5 C
- Sta. #6 = Cattle crossing ----- Dry
- Sta. #7 = Mouth of channel ----- Dry
- Sta. #8 = Lindner Cr.(above H-457L-01) ----- 11.5 C

Saw several 0+ coho at Lindner Creek just upstream of the mouth of H-457L-01 (i.e. at station #8).

DATE: 10/23/89

OBSERVER:

Recent rains have brought the water level up in the pond and there is a good flow from the pond to the creek

DATE: 11/8/89

OBSERVER: Nettnin

Heavy rains and an under sized culvert at the Upper Hoh Road caused Lindner Cr. to backed up into the channel and pond. Water backed over the fry trap leaving it completely submerged. Water from the creek also overflowed into the field and ran into H-457L-01 about midway between the mouth and the pond. The rip-rap placed to armor the bank of the channel at this point was insufficient and allowed heavy erosion to occur in the adjacent field.

DATE: 12/3/89

OBSERVER:

Heavy rains again flooded trap.

DATE: 12/4/89

OBSERVER: Nettnin

Heavy rains again caused Lindner Cr. to overflow resulting in more erosion. Trap was submerged once again.

DATE: December 1989

OBSERVER:

Clearwater corrections center crew finished fencing pond and outlet channel.

DATE: 12/18/89

OBSERVER: Nettnin, Young

Began a mark-recapture population estimate for Peterson Pond by setting 29 minnow traps. Results will be reported at a later date. Bottom profile and surface area measurements were also taken on this date. The raw data for these measurements was forwarded to Dave King.

DATE: 6/92

OBSERVER: Nettnin

It was observed during this period that the cattle had gotten inside the fence on the lower portion of the channel. The vegetation was eaten or trampled, the willow and alder defoliated and the banks broken down. The fence along the cattle crossing had been torn down.

DATE: 9/22/92

OBSERVER: Nettnin

The fence was repaired and additional posts and strands wire were added to reenforce this section.

DATE: 10/11/94

OBSERVER: Powell

Pond low - no outflow at this date. No appreciable rain in a month; lowest flows of the season. Willows and alders in outflow channel were trimmed back. Alders along south end of pond have been thinned (10 ft apart), and will be bundled for placement in pond. Grass and sedges in lower end of outflow channel - below cattle crossing, may impede fish passage when water is low. No fish were observed.

DATE: 3/16/95

OBSERVER: Powell

The following water chemistry was observed on this date:

pH: 6.0

D.O.: 8 mg/l

Temp: 9.5° C

Water Hardness - CaCo3: 28 - 32 ppm *

- Titrator line divisions are in increments of 4. Both readings were recorded.

DATE: 3/25/95

OBSERVER: Darrow

Trap has submerged 3-4 times this season but not over barrier screens. Flows have been much steadier this season with no low flows since before December. Downstream coho have begun showing up these past 2 weeks and have been mostly very large and fat. There has been a couple of 200 mm (holdovers) coho. Amphibian are numerous and diverse: newts, salamanders, redlegged frogs, tree frogs, and larval stage aquatic insects. Due to the abundance of subsurface food, rises are a rare site here.

DATE: 6/95

OBSERVER: King

Water samples were taken for analysis. The following information was provided by Grays Harbor College: Chloride <2 mg/l, Hardness 251 mg/l, pH 6.0, Sulfite <5 mg/l, Iron <0.1mg/l.

DATE: 10/23/95

OBSERVER: Darrow

Outflow from this pond started about the second week of October. The trap was installed and is catching an individual fish once in awhile. We have had a muskrat problem here and hope intake pipe modification will eliminate them entering into box. Leaf debris from alders and willows is noticeable this year; due to intake becoming plugged with debris, we attached a deflector.

DATE: 4/10/96

OBSERVER: Darrow

Outflow channel to Lindner Creek has no barriers but the portion of channel from cattle crossing upstream to right bank slough remains shallow. During low flows, this area needs to be checked to verify fish passage. Willows are dense between trap and DS screens and their roots are encasing outflow tube. We added additional bundles of alder to the pond and there is some stumps to add this summer. DS migrants have been large and fat as usual. We have recovered 38% of brands to date.

DATE: 10/24/96

OBSERVER: Powell

This site is no longer being trapped; all trapping materials have been removed. There was a good flow on this date. The willows in the lower channel are starting to take-off. Everything looked good. Lower end of channel may benefit from some dredging but there were no problems at present flow.

DATE: 4/2/97

OBSERVER: Darrow

Pond and channel look good. Debris bundles in the pond are staying in place. Ducks and herons have been observed on the pond all season but there seems to be adequate cover. Observed a few fry where trap box was and saw some coho juveniles in bare areas of the pond.

DATE: 8/25/97

OBSERVER: Nettnin

- Alders were thinned along the shore and felled into the pond for cover.
- Thinning slash was also bundled and placed in the pond as cover structures.
- The grass that was beginning to choke the lower channel is dying out due to the shade created by the willows
- The fence is in good repair.

DATE: 10/22/97

OBSERVER: Powell/Darrow

Beaver built impassable dam at pond outlet. It is now disassembled and we are monitoring the site.

DATE: 3/14/98

OBSERVER: Darrow

No new beaver activity - channel remains open. Observed fish darting in channel portion of project.

DATE: 10/25/98

OBSERVER: Darrow

Pond not flowing at time of visit. No beaver dams or debris barriers encountered. Problems: rampant blackberry growth blocking trails, and willow growth with the potential of choking the outflow channel. A few small rises were observed in the pond.

DATE: 4/3/99

OBSERVER: Darrow

The channel was flowing with no restrictions to Lindner Creek. No beaver activity was observed. Fence and walk-throughs are being overtaken by blackberry bushes in different locations. Observed some fry and smolt sized salmonids below cattle crossing.

DATE: 7/6/99

OBSERVER: Nettnin

The site was visited and maintenance was performed. Blackberries were removed from the throughways.

DATE: 10/6/99

OBSERVER: Darrow

Zero outflow at time of check. Pond needed to rise about a foot to flow into the channel. Cattle crossing had been blocked-off to animals. Portions of the lower fence are completely overgrown with blackberry vines.

DATE: 4/2/00

OBSERVER: Darrow

There is a good unrestricted flow through the channel. Channel is okay all the way to Lindner Creek. Blackberries will need to be pruned before obstructing pathway. The pond has prolific aquatic growth. Observed some juveniles at the confluence.

DATE: 10/16/00

OBSERVER: Darrow

Pond has a naturalized look about it - pond weed covers most of the surface. There was a small beaver dam at the pond outlet. The downstream channel was unobstructed. Foot trail along fence is overgrown with blackberry vines again.

DATE: 2/17/01

OBSERVER: Darrow

Lower than normal winter and late spring precipitation. Outlet channel was flowing with no obstructions. There were some beaver food sticks but no recent activity. Observed some juvenile salmonids. Blackberry vines need to be trimmed back.

DATE: 10/6/01

OBSERVER: Darrow

Presently, outlet channel is not flowing. There is a small beaver dam at the usual spot near the pond outlet. Blackberry vines are taking over sections of this project making traversing difficult.

DATE: 3/26/02

OBSERVER: Darrow

The outlet of the pond is free flowing. There has not been any recent beaver activity. Did not observe any salmonids but the pond is thick with aquatic vegetation. Different types of ducks are nesting here.

DATE: 11/13/02

OBSERVER: Powell

There is a beaver lodge in the middle of the pond but no blockages in the egress channel. Everything is okay except blackberry vines taking over in some areas.

GPS: (decimal degrees, Datum WGS84):

pond outlet - N47.62972, W124.16681

egress - N47.81718, W124.16909

DATE: 5/9/03

OBSERVER: King

Everything looks good. Channel is open to the confluence with the creek. Pond could use more cover.

DATE: 7/29/03

OBSERVER: Nettnin

Channel still flowing. Cleaned and repaired fence around project site. Added cover structures in the form of thirty foot spruce trees donated by Gary Peterson.

DATE: 10/23/03

OBSERVER: Nettnin

Project looks good.

Hoh River

SITE: H-R9

Channels: H-1576-01, H-1576-02, H-R9-04, H-R9-05

Map Date: 9/87

Revised: 1/90

Revised: 11/97



High Terrace

100' ±

Minnie Peterson Residence

Minnie Ct

360m

100m

145m

Creek

600m Field

340m

Fields

Peterson Pond

H-1576-01
H-1576-02

Store

County Yard

Store

Upper Hoh Valley Rd

H-R9-05

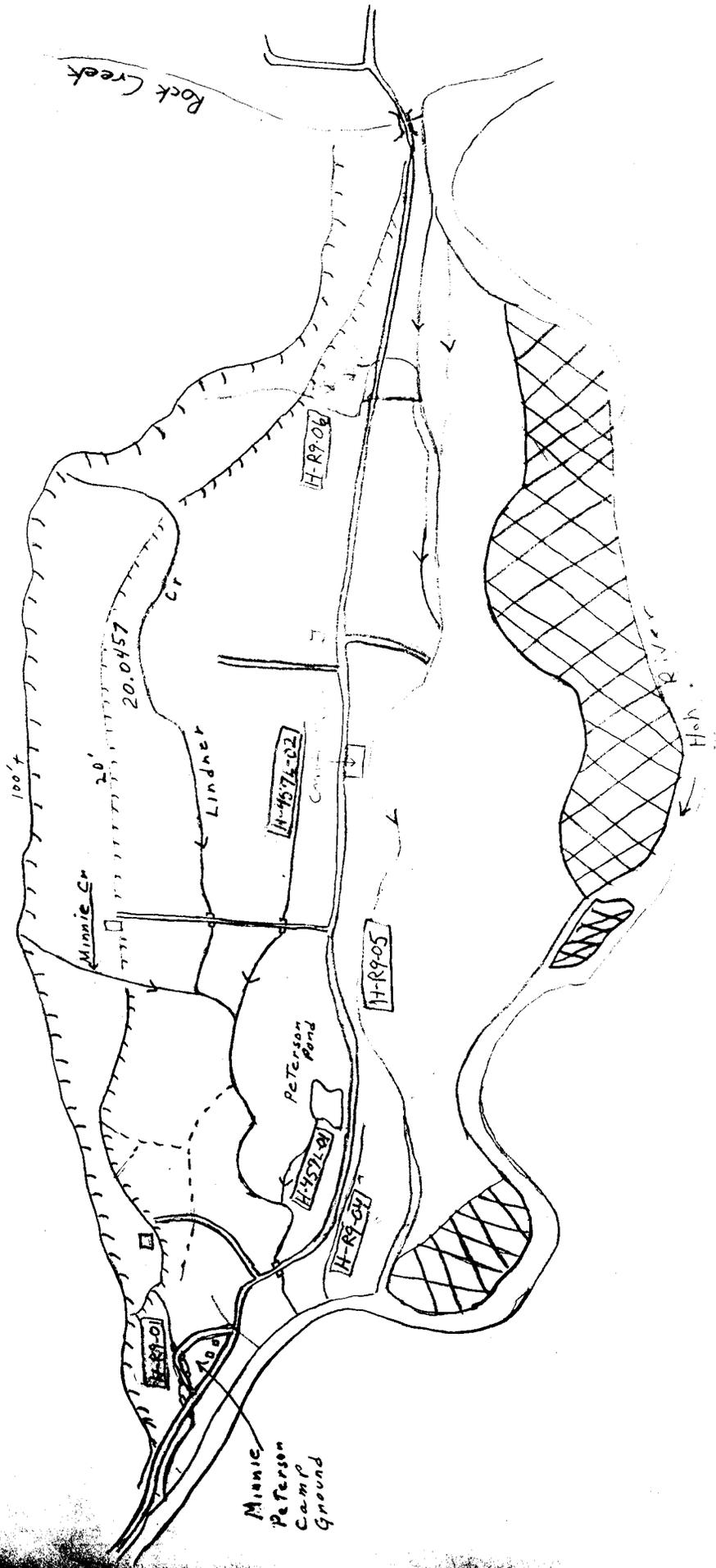
H-R9-05

Hoh River

To Hwy 101

105m

330m
H-R9-04



Hoh River
 Site: H-R9
 Overview Map
 Map Date: 9/87
 Revised: 1/90
 11/97

SITE H-R9-02 WAS CHANGED TO H-457L-01
 H-R9-03 WAS CHANGED TO H-457L-02