

**STATE OF WASHINGTON
DEPARTMENT OF FISH & WILDLIFE
HABITAT PROGRAM
Salmonid Screening, Habitat Enhancement &
Restoration Division (SSHEAR)**

OFF-CHANNEL SITE INVENTORY DATA

General Information:

Region: North Coast	Observer(s): Nettin
River System: Hoh River	Date: 6/9/87
Site Identifier: H-426R-02	WRIA: 20.0426 (A)
River Mile Location: 2.0	RB/LB: RB
Local Name: Rayonier/Fletcher Pond	Trib. to: 20.0426
Legal Description: NW¼ Sec27 T26N R13W	County: Jefferson
Habitat Type: Pond	
Landowner: <input type="checkbox"/> Federal <input type="checkbox"/> State <input type="checkbox"/> County <input type="checkbox"/> Other Government <input checked="" type="checkbox"/> Private - Rayonier Timber Co. - Other private individual	

Directions to site:

South from Forks to MP 167.4 (just south of the Lower Hoh County Rd.). Turn left onto the gravel road/driveway (red marker 167 422), then turn left into wide spot and park. The stream at the foot of the bank is Fletcher Creek (20.0426). The trib entering on the RB is H-426R-02

Site Overview:

This is a man made tributary. The pond is an old gravel pit that filled with spring water. In the past (during mine operation), an egress was dug on the north side of the pond and water flowed down the ditch line of highway 101. After it was abandoned, Washington Department of Fish and Wildlife excavated an egress to Fletcher Creek, on the south side, and plugged the old outlet. The springs were also excavated and channelized to increase the water flow through the pond.

Habitat Information:

Water source: Springs, surface runoff

Intermittent/year-around: Year-around

Estimated flows (cfs): 0.25 - 0.5

Water temperatures: Pond outlet - 13°C Pond inlet - 10°C

Adjacent stream temperature: 9.5°C

Other water observations: Tannic color

Site area measurements: Indirect Direct Combination
Width: Channel- 1 - 2 m Pond- 50 X 50 m
Depth: Channel- 5 - 20 cm Pond- 2 - 3 m
Total length surveyed: 130 m

Total existing habitat area (est.):

Spawning area: 30 m²
Impounded area: 2,500 m²
Other rearing area: 50 m²

Spawning habitat conditions: None Poor Fair Good Excellent

Describe spawning habitat:

- Good gravel.
- Shallow water.

Rearing habitat conditions: None Poor Fair Good Excellent

Describe pond and other rearing habitat:

- The pond is about 1 - 2 acres. It has 20 - 30 year old conifer and deciduous trees buffering its edges.
- Cover structures in the form of bundled 10 - 20 ft trees were placed in the pond.

Unaccessible habitat: NA

Wetland information: Bog Marsh Scrub-shrub Wetland Forested Wetland

Flooding potential: Low Medium High

Fish Information:

Site entry condition to : Poor Fair Good

- Beaver activity at the egress of the pond will inhibit fish migration at times.

Coho use: Juvenile- Unknown None Poor Fair Good

Adult- Unknown None Poor Fair Good

- Fry have been observed in the outlet channel and risers have been seen in the pond. Trapping has not been done on this site .
- The problem culvert under the lower Hoh county road has been replaced.

Other species access and use: Chum Pink Sockeye Res. trout Trout

- Trout have not been identified but are assumed to use this habitat.

Habitat Improvements:

Enhancement opportunities:

- Maintain the integrity of the channel.
- Add more cover to the pond.

Additional Comments:

This report was revised on 12/99. Some of the data collected as supplementals will show in the report.

Attachments Available:

Contact respective SSHEAR habitat biologist for the following checked items:

- | | | | |
|---|---|--|---|
| <input type="checkbox"/> Aerials | <input type="checkbox"/> Sketch | <input type="checkbox"/> Maps | <input type="checkbox"/> Culvert Report |
| <input type="checkbox"/> Other references | <input type="checkbox"/> Spawning surveys | <input type="checkbox"/> Juvenile trapping | <input type="checkbox"/> Fishway Report |

NORTH COAST OFF CHANNEL SURVEY
SUBSEQUENT SITE EVALUATION FORM

River System: Hoh R.

Channel No.: H-426R-02

Site Name: Fletcher Cr./ Rayonier Pond

WRIA: 20.0426A (was H-0426)

DATE: 7/22/87

OBSERVER: Young, Nettnin

Inlet is located on the south side of the pond and water appears to originate primarily from a spring in the hillside. The water level of the pond has dropped considerably since the Fletcher Cr. survey in early June 1987.

Inlet temp.----- 53 F
Outlet temp.----- 63 F
D.O. inlet----- 10.5 mg/l
D.O. outlet----- 18.5 mg/l

DATE: 12/11/87

OBSERVER: Nettnin

Pond is clear and as high as it probably gets, 0.5 - 1.0 cfs flowing from outlet, (flows through beaver dam). Heavy rains earlier in the week.

Outlet temp.----- 42 F
D.O. outlet----- 10 mg/l

DATE: 12/21/87

OBSERVER: Young

Outlet temp.----- 40 F
Culvert Lower Hoh Rd. 39 F
D.O. outlet----- 10.0 mg/l
Culvert Lower Hoh Rd. 13.0 mg/l

DATE: Summer '88

OBSERVER: King, Young, Nettnin

This one acre spring-fed pond is located on the right bank of Fletcher Cr. (20.0426) just above highway 101 and is the result of a gravel mining operation. During the operation, the pit was drained to a branch of Fletcher Cr. but was unaccessible to fish because of steep gradient. We made this pond accessible by sealing off the outlet and excavated a ~20 m long egress channel to the mainstem. To enhance the flow into the pond, a channel was excavated into the hillside to intercept more of the spring water and some perk-water from Fletcher Cr.

DATE: 11/30/89

OBSERVER: Young, Nettnin

Rayonier pond looks good, a few risers were observed.

Inlet temp.----- 45 F
Outlet temp.----- 45 F
Fletcher Cr. temp. -- 46 F

DATE: 5/2/90

OBSERVER: King

pH readings: Pond inlet and outlet were at 6.3.

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NORTH COAST OFF CHANNEL SURVEY
SUBSEQUENT SITE EVALUATION FORM

River System: Hoh R.

Channel No.: H-426R-02

Site Name: Fletcher Cr./ Rayonier Pond

WRIA: 20.0426A (was H-0426)

DATE: 10/7/92 - 10/12/9

OBSERVER: Nettnin

Conifer tops were gathered from a local pre-commercial thinning unit and hauled to the pond. The thinning unit was on DNR ground. The truck and crew were also provided by DNR. Four to five tops were tied together by the butts. A rock that was drilled and a length of cable epoxied into the hole was attached before placing the structure in the pond. The desired affect is to have the tops extending from top to bottom through the water column and fan out to increase the size of the structure.

Crew days: 4 (crew days based on a 10 man crew working 8 hrs/day).

MATERIAL LIST

HARDWARE: 2" Staples	10 lbs
Hilti epoxy	26 tubes
1/8" cable	600 ft provided by DNR

DATE: 11/27/94

OBSERVER: Darrow

Active beaver dam at outlet, fish passage probable during high flows. Made an opening in dam on this date; will have to monitor periodically. No fish were seen.

DATE: 3/27/95

OBSERVER: Darrow

Active beaver dam at outlet. Made an opening in dam on this date. Tannic colored water limited visibility. Did not observe any surface feeding on the pond.

DATE: 11/2/95

OBSERVER: Powell/Darrow

No recent activity from beavers. Opened up old beaver dam at pond outlet. No fish were observed.

DATE: 4/1/96

OBSERVER: Darrow

There was a small, passable beaver dam at the outlet of the pond; none of the activity was recent. Debris was cleared from the area. It is recommended that the pond receive more cover - brush and stumps. No fish or activity were observed.

DATE: 10/22/96

OBSERVER: Darrow

Two small beaver dams were removed. Pond has a good charge of water, 3-4 CFS flow after dam removal. Observed several smolts size fish dart for cover in the mid portion of outlet channel. Hoh tribal biologist said they would monitor the site for beaver activity.

DATE: 3/23/97

OBSERVER: Darrow

This site does not change much from season to season. I removed two small beaver dams. Observed several salmonid darting for cover in outlet channel.

NORTH COAST OFF CHANNEL SURVEY
SUBSEQUENT SITE EVALUATION FORM

River System: Hoh R.

Channel No.: H-426R-02

Site Name: Fletcher Cr./ Rayonier Pond

WRIA: 20.0426A (was H-0426)

DATE: 10/1/97

OBSERVER: Nettnin

- There is a three to four foot beaver dam at the outlet of the pond.
- There are three beaver dams in the inlet channel, one is submerged the others are about one foot high.

DATE: 2/28/98

OBSERVER: Darrow

There is a small, passable beaver dam at the pond outlet. I removed the majority of debris. Observed a couple of salmonid darting around in the channel below the pond.

DATE: 10/28/98

OBSERVER: Darrow

Several beaver dams were encountered here. I removed the smaller one at confluence with the creek. The larger one at the pond outlet is not blocking yet but will need to be opened as the pond rises. J. Jorgenson says the tribe will maintain this one. A couple juvenile coho were observed at the confluence with the creek.

DATE: 10/6/99

OBSERVER: Darrow

Outflow was less than 1/4 CFS. Two beaver dams were opened at the outlet of the channel. Routine check for dam rebuilding will need to be made. Observed some juvenile salmonid in the channel and some rises on the pond.

DATE: 4/15/00

OBSERVER: Darrow

Beaver dams in the usual locations were opened up. Observed a few fry near the confluence.

DATE: 10/17/00

OBSERVER: Darrow

Removed a small beaver dam from the usual place - at the outlet of the pond. There does not appear to be any recent beaver activity. Saw a few rises on the pond.

DATE: 3/7/01

OBSERVER: Nettnin

Project is in good shape. No recent beaver activity at usual dam site. Rising fish were observed on the pond.

DATE: 12/12/01

OBSERVER: Darrow

Breached beaver dam at the outlet of the pond. Everything else looked fine.

DATE: 4/10/02

OBSERVER: Nettnin

Project site looked good.

DATE: 11/7/02

OBSERVER: King

Opened small beaver dam. Flow is low.

GPS: (decimal degrees, Datum WGS84):

pond outlet - N47.73067, W124.37745

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NORTH COAST OFF CHANNEL SURVEY
SUBSEQUENT SITE EVALUATION FORM

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Channel No.: H-426R-02

Site Name: Fletcher Cr./ Rayonier Pond

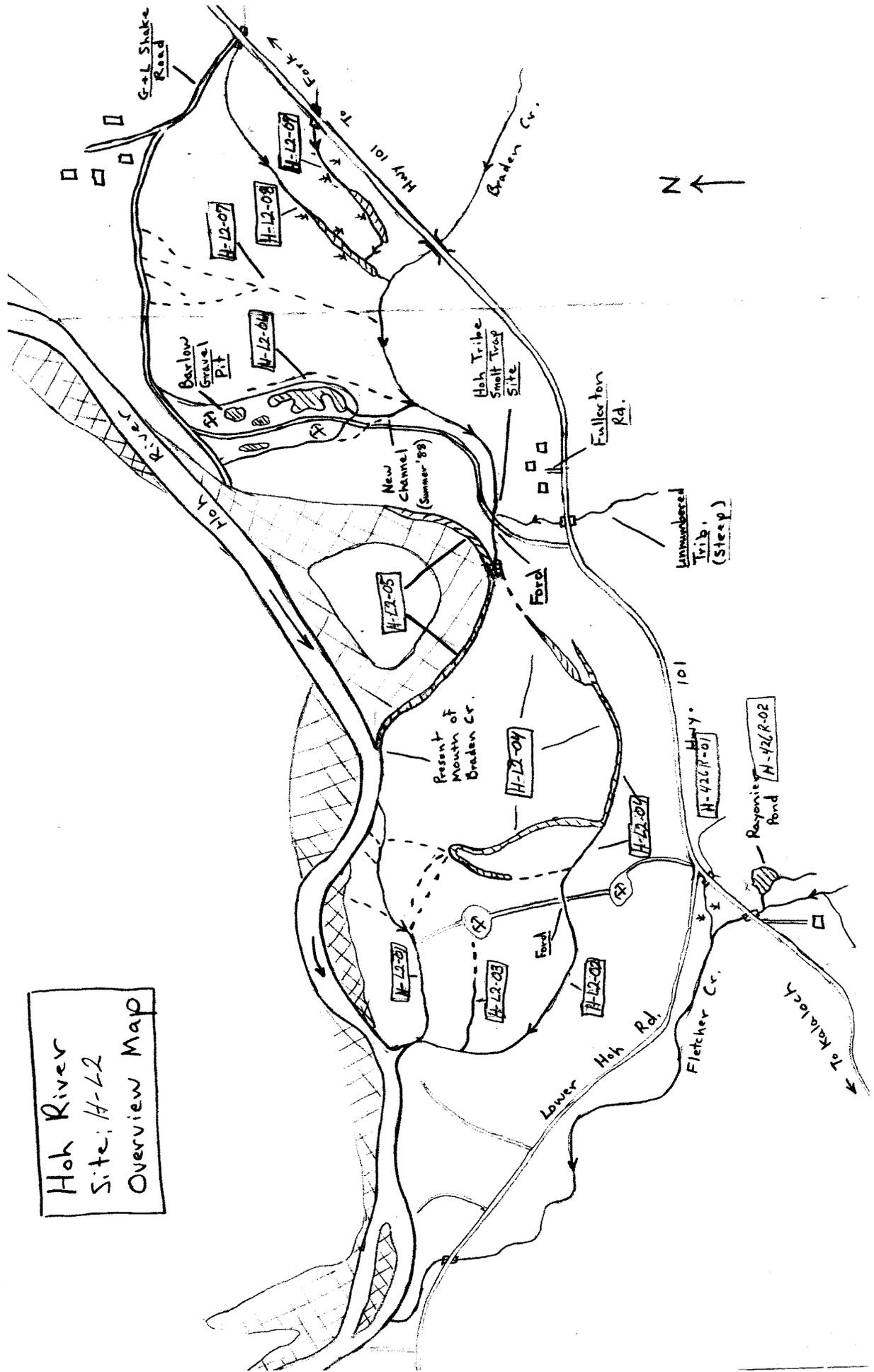
WRIA: 20.0426A (was H-0426)

DATE: 10/21/03

OBSERVER: Nettnin

Looks good. No beaver activity

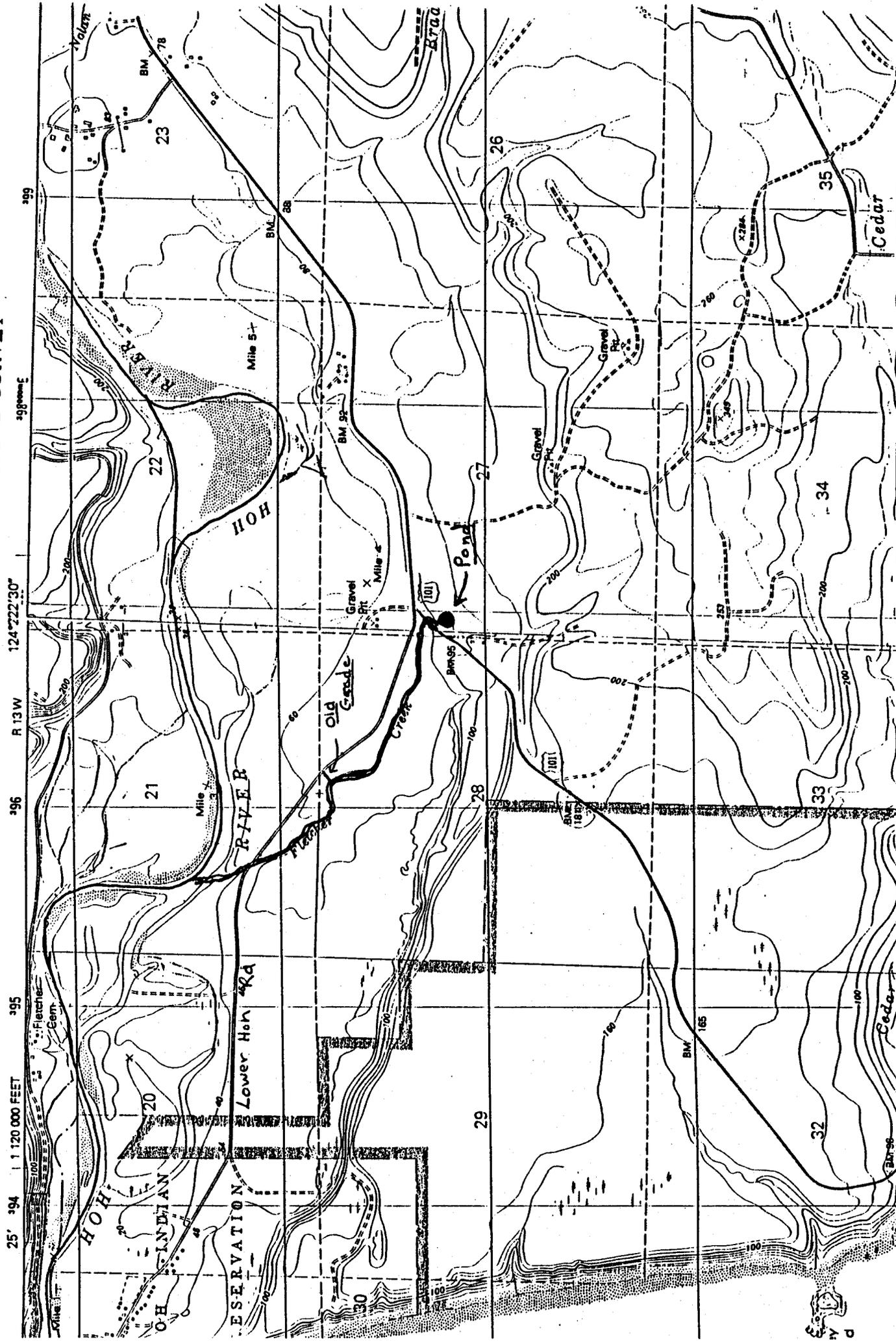
Hoh River Site: H-22 Overview Map



Fletcher Cr. (20.0426)

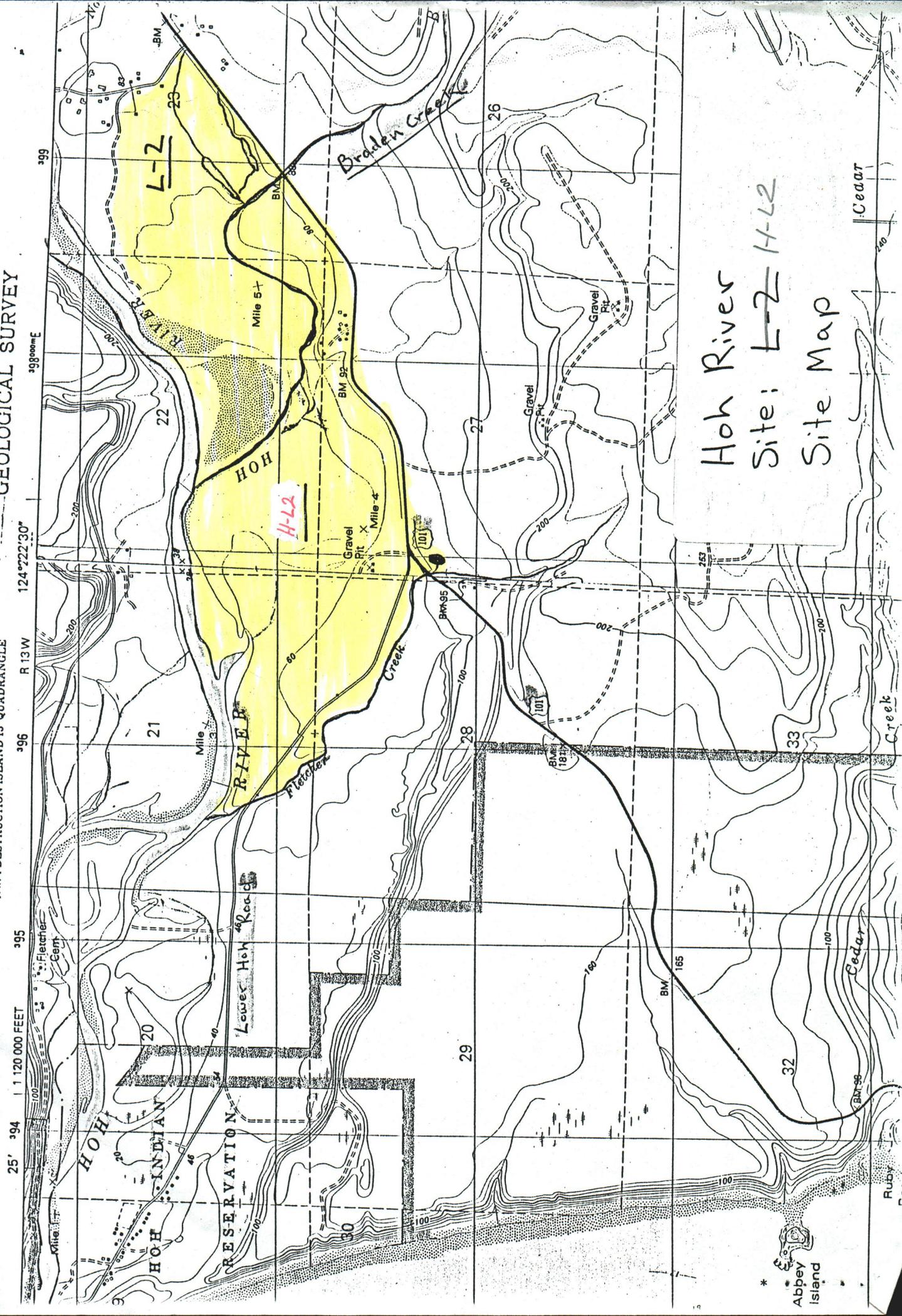
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 NW/4 DESTRUCTION ISLAND 15' QUADRANGLE

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Hoh River
Site: L-2 H-L2
Site Map

* Abbey Island