

SITE NUMBER: ED-L2-01
LOCAL NAME: Muddy Marsh Springs
WRIA: 20.0113F

NORTH COAST OFF CHANNEL SITE INVENTORY DATA

RIVER SYSTEM: E. F. Dickey **DATE:** 2/28/91 **OBSERVER:** Young

CHANNEL TYPE: Lower end of a several small valley wall tributaries

TRIBUTARY TO: E. F. Dickey River (20.0110)

SITE LOCATION: L.B. @ R.M. 2.95 (U.S.G.S.)

LEGAL DESCRIPTION: SW1/4 S21 T29N R14W

	<u>UPPER END</u>	<u>LOWER END</u>	<u>RIVER TEMP</u>
<u>WATER TEMP:</u>	6.0 C	5.5 C	7.0 C

<u>FLOW (CFS):</u>	Seeps	0.1 to 0.25
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SUBSTRATE TYPE: Lower 100 to 150 m is gravel and cobble. Primarily mud and muck further upstream.

SITE SIZE: **Length-** About 200 m (from mouth to outlet of small marsh).
 Width- Surface = 0.6 - 1.2 m (below shallow marsh)
 Channel = 1 - 3 m (below shallow marsh)
 Depth- 5 to 10 cm (below shallow marsh)
 (Marsh = 100 x 25 m. Avg depth = 2 - 5 cm. Max depth = 10 - 20 cm)

WATER SOURCE: Primarily run off from small valley wall tributaries and a few small seep springs from the shallow marsh area.

DIRECTIONS TO SITE: Go north from Forks on Hwy 101 for 3.1 mi. Turn left (west) 0.1 mi. north of MP 195 onto the D-2000. Continue west on the 2000 about 3.6 mi. to a major fork in the road. Veer left onto the 5100 and continue 3.1 mi. until coming to a four-way intersection. Turn right (north) onto the 5102.3. Proceed north 0.4 mi. until the road crosses a marshy channel. Turn left at the junction just beyond the marshy channel. Continue 0.5 mi. to a section marker which indicates the line between sect. 33 and 28 (T29N, R14W). About 0.4 mi. north of the section line is the junction of D-5102.3 and D-5102.31. Keep right and proceed another 0.1 mi. on the 5102.3 until the road forks. Veer left at this fork. Continue 0.9 mi. (keep right at the first three forks then left at the next two spur roads) then turn right onto a spur road (third spur to the right). Proceed 0.1 mi. then turn left. Follow this grade down the hill to its end (0.6 mi.). ED-L2-01 is just south of the end of the road. ED-L2-01 is also accessible via the La Push and Quillayute Roads (see road map to site).

FISH ACCESS AND CURRENT USE: Fair to good access into channel from river. Lower channel has a moderate to gentle gradient. Appears the lower 90 m reach has fairly unrestricted access for juvenile fish. Slash and other woody debris greatly restrict fish access above that point.

FLOODING POTENTIAL: Low.

LANDOWNER: Unknown at this time.

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COMMENTS & RECOMMENDATIONS: ED-L2-01 enters the E.F. Dickey on the out-side of a hard bend and very close to river mile 3.0. The mouth is somewhat protected by woody debris in the river just upstream. Despite being on the outside of the bend, bank erosion near the mouth appears fairly minimal.

ED-L2-01 is deeply incised at the mouth (1 to 1.5 m wide channel with steep 3 m high banks). The lower 90 m of the channel has a moderate to gentle gradient as it meanders through the RMZ strip of mature conifers. Gravel and cobble along this lower reach of ED-L2-01 might accommodate a limited amount of spawning activity.

The remainder of ED-L2-01 (i.e. above the RMZ) has been clear cut to the bank. Just above the present tree line (90 to 100m above the mouth) is a large pile of slash and other woody debris that appears to completely block the upstream migration of juvenile coho.

Above the large slash pile, the well defined channel maintains a moderate gradient for the next 100 m. Additional slash is scattered along this reach.

The gradient then flattens as the channel flows through a shallow, muddy marsh. This small marsh is about 100 m long and 20 to 30 m wide. A steep, 3 m high bank lies along the northern edge of the small marsh. The access road runs along the top of this bank. The channel in the marsh is shallow and poorly defined with an average water depth ≤ 5 cm. The marsh is fed by a number of very small tribs and seep springs which enter the area from the steep hillside to the east, southeast and southwest. Sedges, cattails and slash are found in the marsh.

Above the marsh are two valleys (the marsh is located at their convergence). The main valley (running into the marsh from the south-west) is relatively large and wide-bottomed with a gentle to moderate gradient. The second valley (running in from the southeast) is steeper and narrower. Despite the size and definition of these valleys, the maximum flow of water has not been able to cut a well defined, singular channel into the marsh. Instead most of the water from the main valley floor is found in a network of small, shallow rivulets.

It might be possible to create a small pond in the marsh area with explosives. Removal of slash and other woody debris in the reach below the marsh would make this area accessible to juvenile coho. At the end of a 10 day winter dry spell the flow of water in the lower channel was substantial. Appears that a good deal more water flows through the lower channel during wetter periods. Need to monitor flows. Good machine access is available to marsh area.

NORTH COAST OFF CHANNEL SURVEY
SUBSEQUENT SITE EVALUATION FORM

River System: E.F. Dickey

Channel No.: ED-L2-01

Site Name: Muddy Marsh Springs

WRIA: 20.0113F

DATE: 7/31/91

OBSERVER: Young

The lower part of the access road into site (last 0.5 miles) is very overgrown with young (5 year old) alder trees. If the road is not maintained, vehicle access will become much more difficult in the coming years.

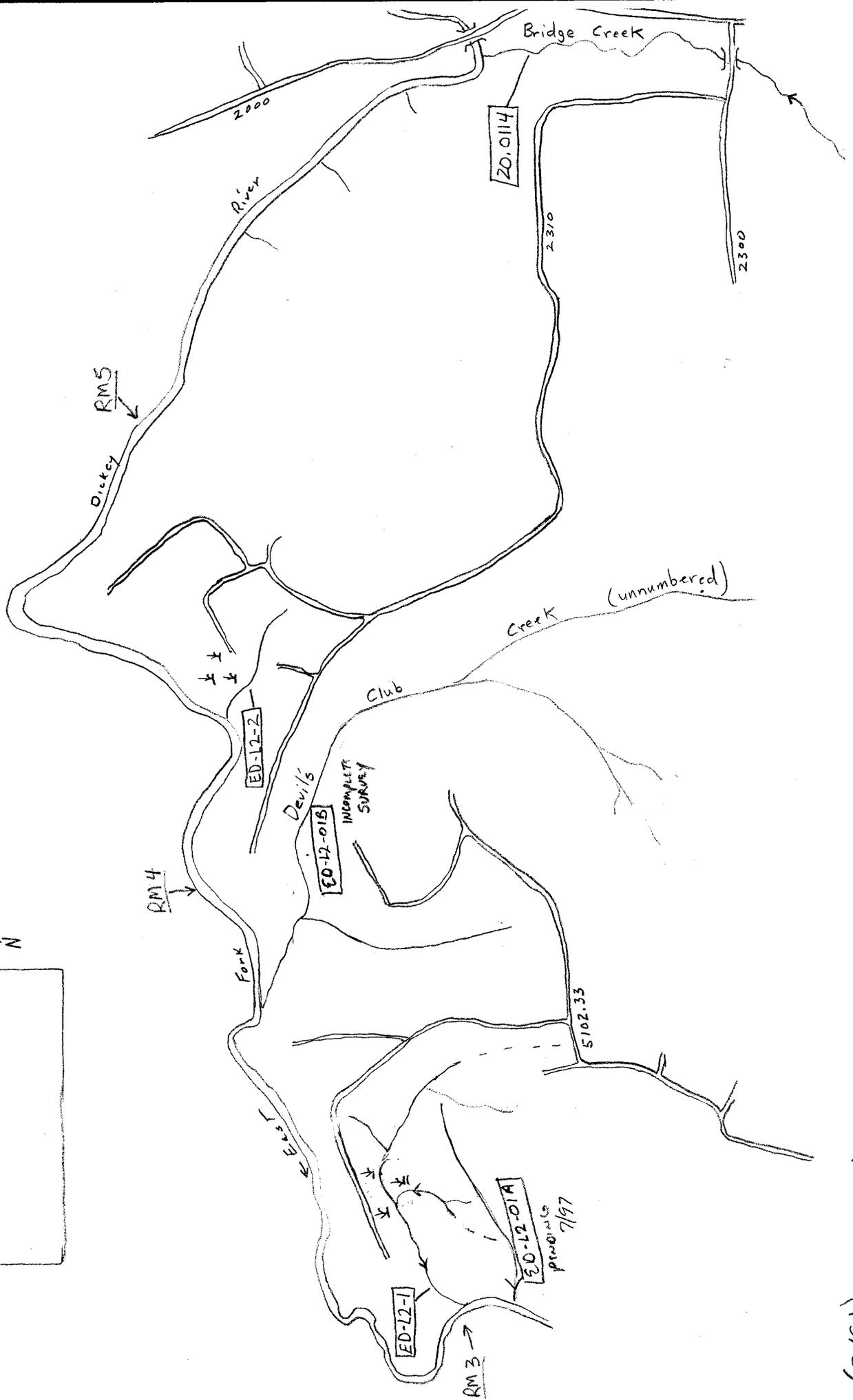
There is still a trickle of water (< 5 gal/min.) in the egress below the marsh. This water was at 14 C. There are also pockets of water and intermittent flow above the marsh. Most of the flow appears to be coming from the steep, narrow valley to the south-east of the marsh. Only about an inch of rain has fallen during the month of July.

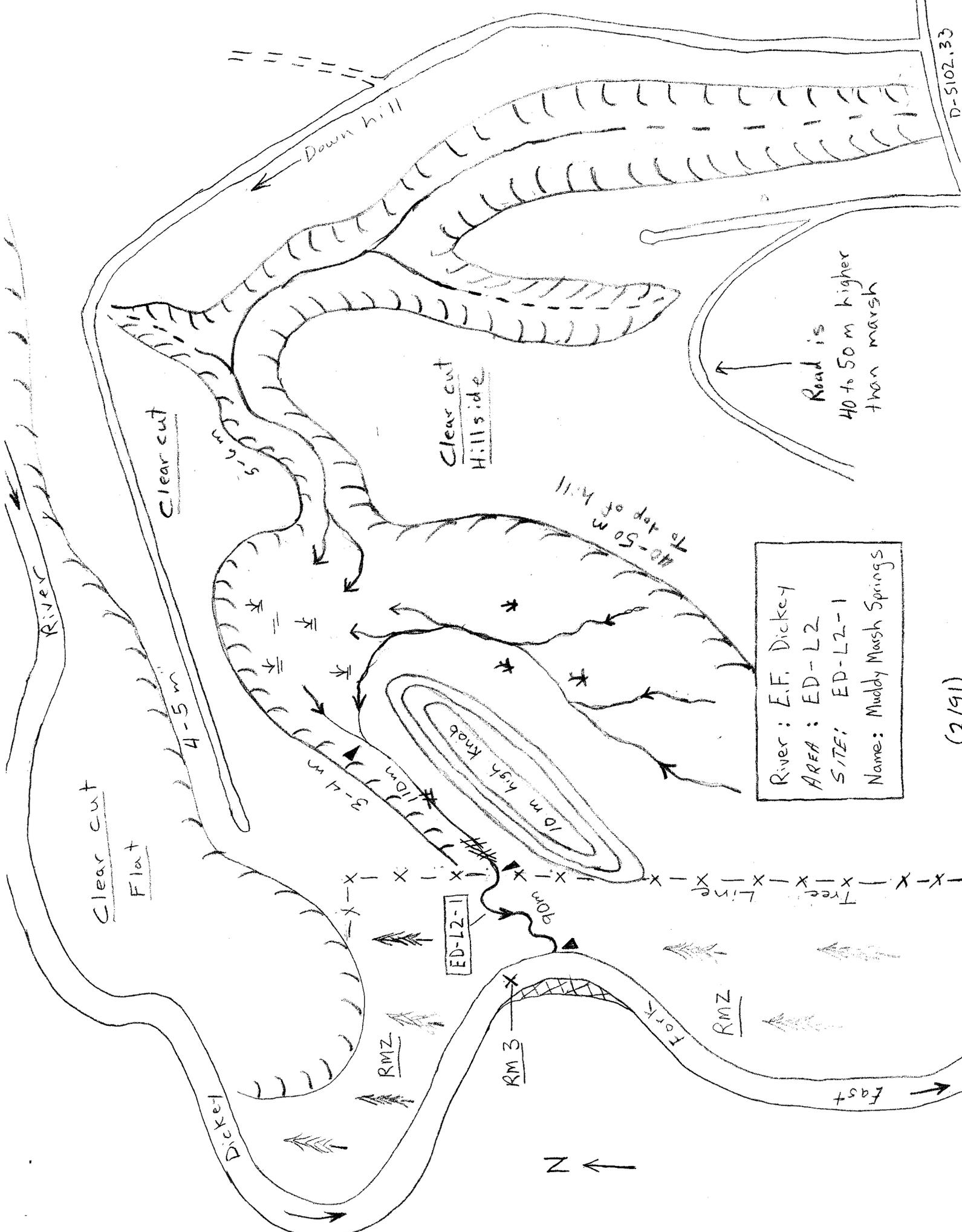
DATE: 4/29/92

OBSERVER: King

- 9" precip. this month. 2" in last 2 days.
- Water temp. 53°. Flow about 1 cfs. Slash piles did not look impassable at this flow.
- Found another channel flowing on south side of knob hill. Flow comes from same area as Muddy Marsh. Break point is at a patch of sedge. < 1 cfs and 53°. Flow funnels under a spruce tree root system in the RMZ. Flow gushes out below it. Hardpan cascade ≈ 3m long should block upstream passage at this flow. Good entrance. Mouth ≈ 50m d.s. from Muddy Marsh.

RIVER: East Fork Dickey
 AREA: ED-L2
 OVERVIEW MAP

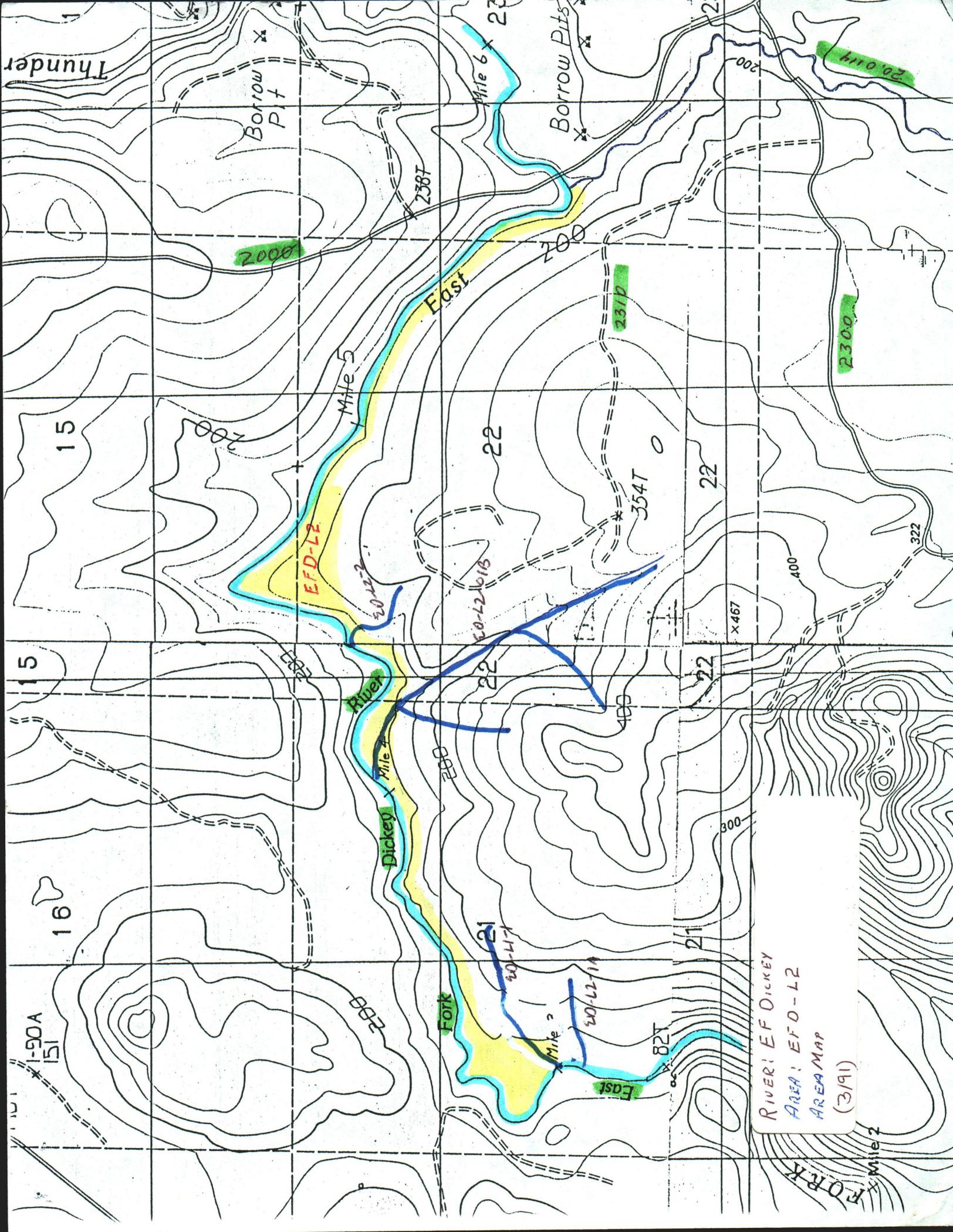




River: E.F. Dickey
 AREA: ED-L2
 SITE: ED-L2-1
 Name: Muddy Marsh Springs

(2/91)

D-5102.33



EFD-L2

Dickey River

Fork

East

RIVER: EFD DICKEY
AREA: EFD-L2
AREA MAP
(3/91)

Mile 2