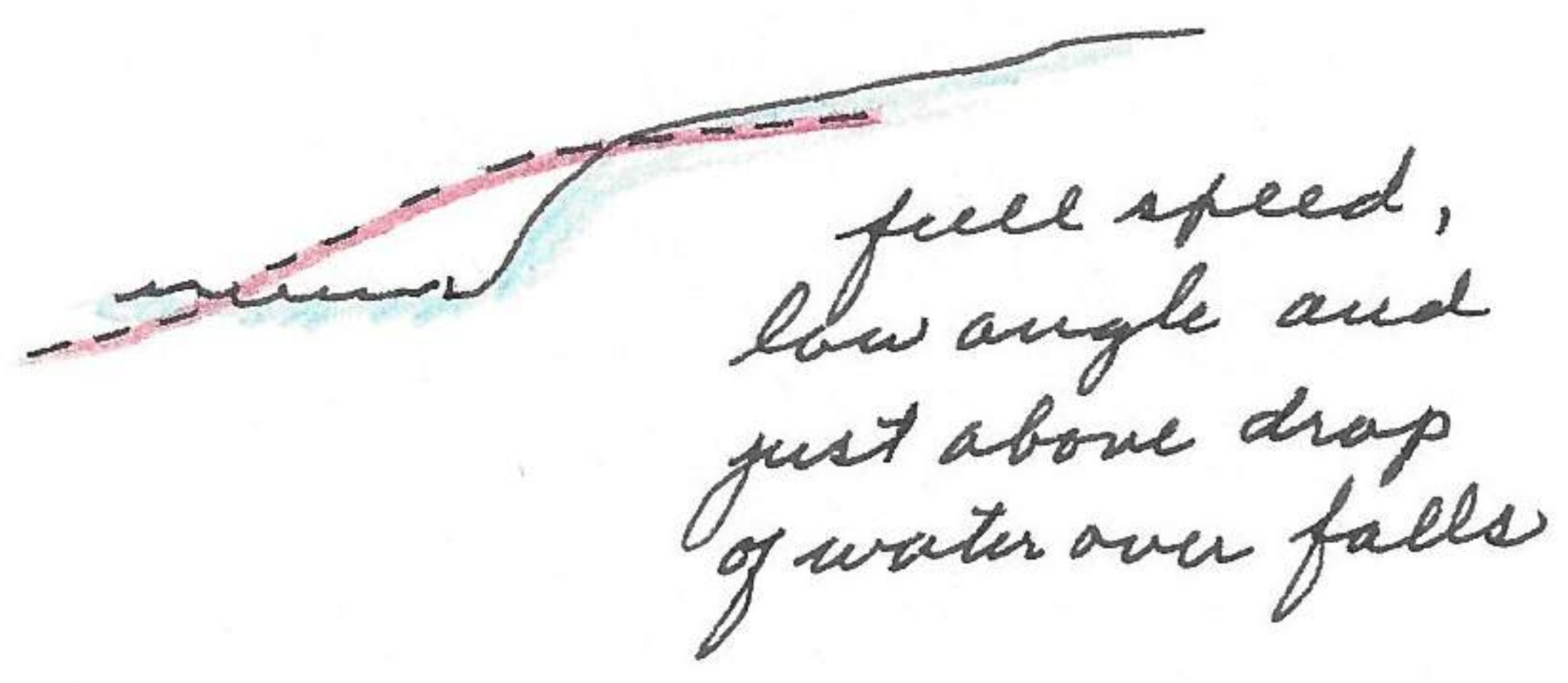


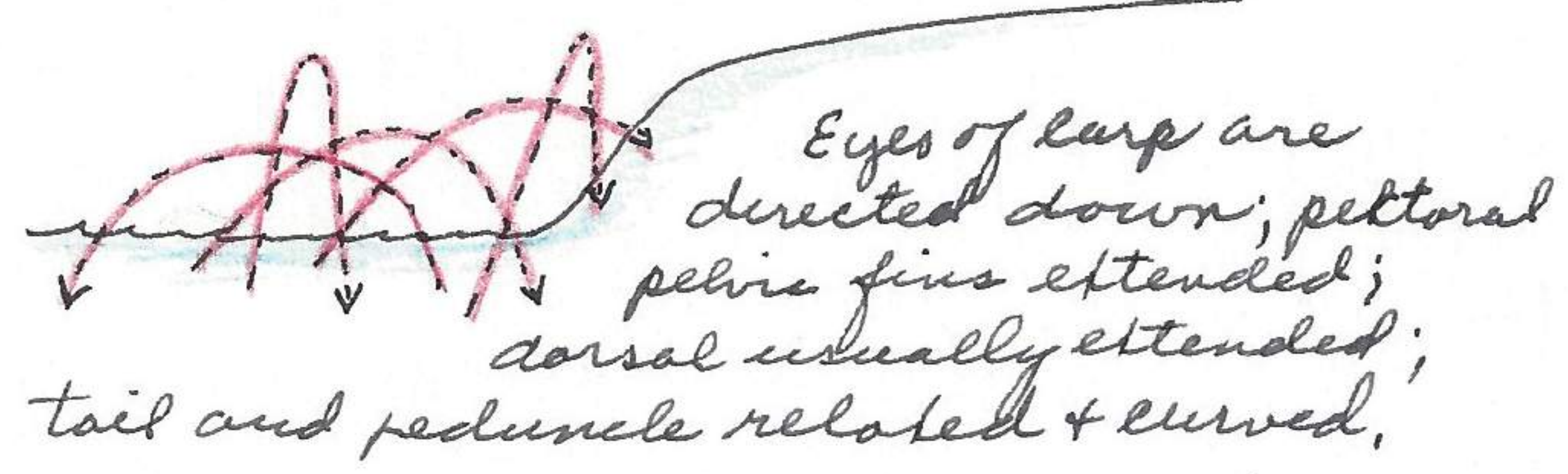
4:05 3 bluejays, Eng sparrows calling. 4:08 arrived N side of falls of stream peracy. Will photograph fish and make general observations. Maple seeds passing over falls at approx. 30 per second and mainly on south side falls. Pool below fall kept clean of seeds but beyond the seeds collect in compact groupings around and in front of branch barriers in river.

and 680502-3. ^{to 680502-7} ~~Three~~ photos of carp. 680502-1, 680502-2, and 680502-3. Water continuous across falls from bank to bank and no bottom exposed. Carp jump falls in a variety of ways. The best and most successful is this:

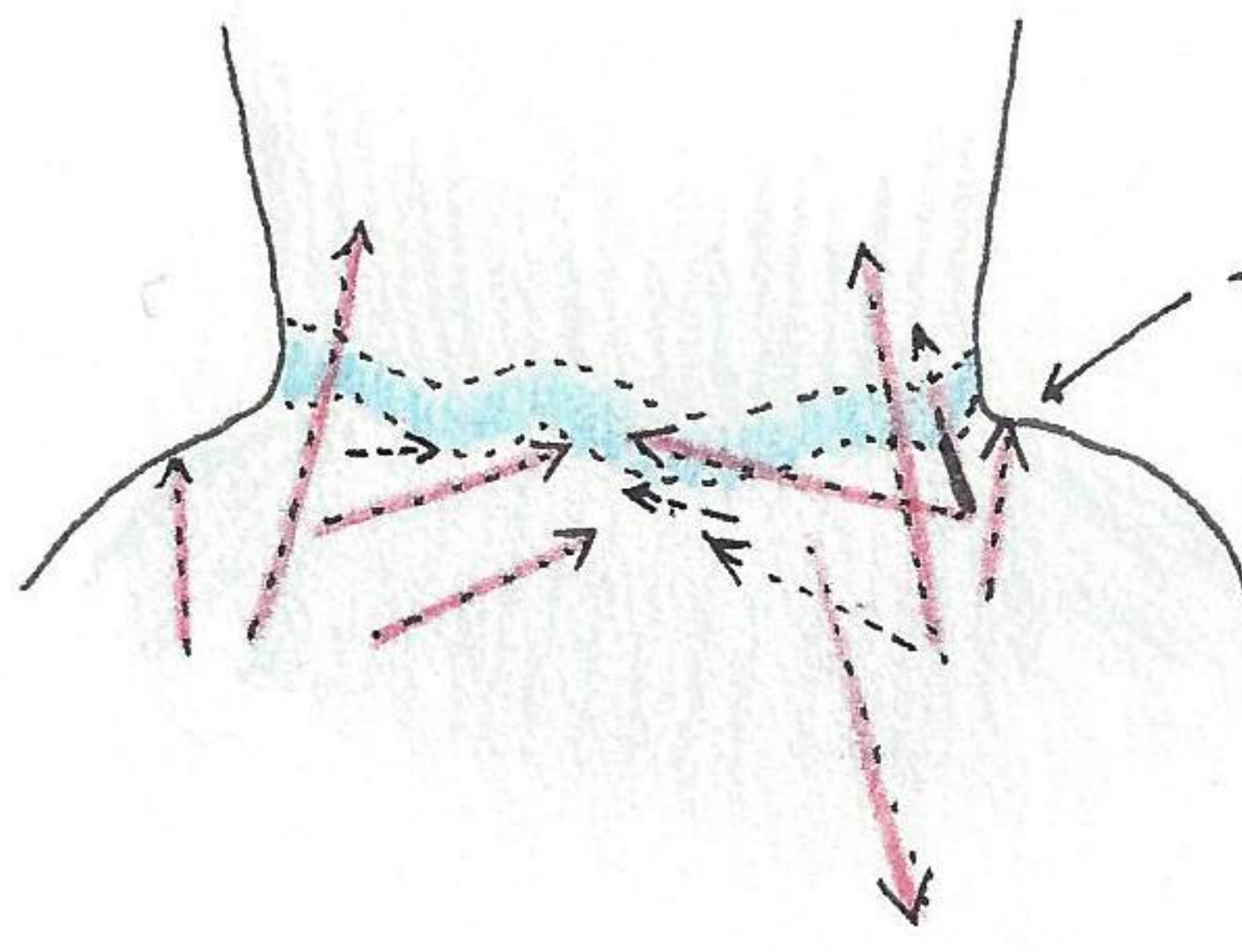
Fish attempting to swim directly into current are generally unsuccessful. Most successes are at edge of falls on either side. Variations are:



full speed, low angle and just above drop of water over falls



Eyes of carp are directed down; pectoral pelvic fins extended; dorsal usually extended; tail and peduncle relaxed & curved.



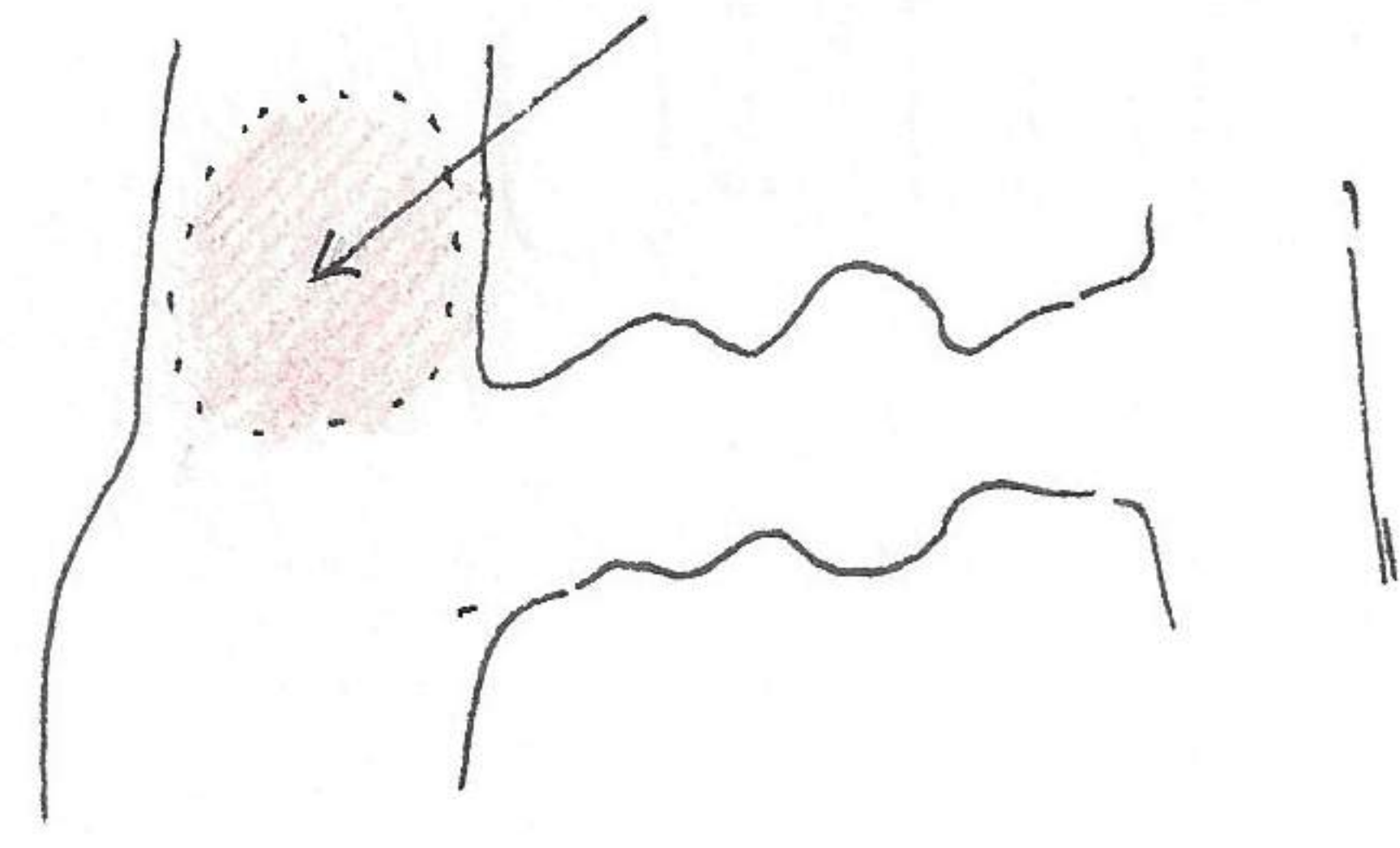
sides worn smooth by fish contact. When large carp hit here (and elsewhere) the thud is felt on bank 10 away.

The smaller bluegills and sunfish attempted swimming against current but it involved a jump and swim to get them over. In the two hours and 52 minutes at falls would estimate that attempted jumps at the falls and of this number 1/3 were successful in passing the barrier. Two 15 min checks were as follows:

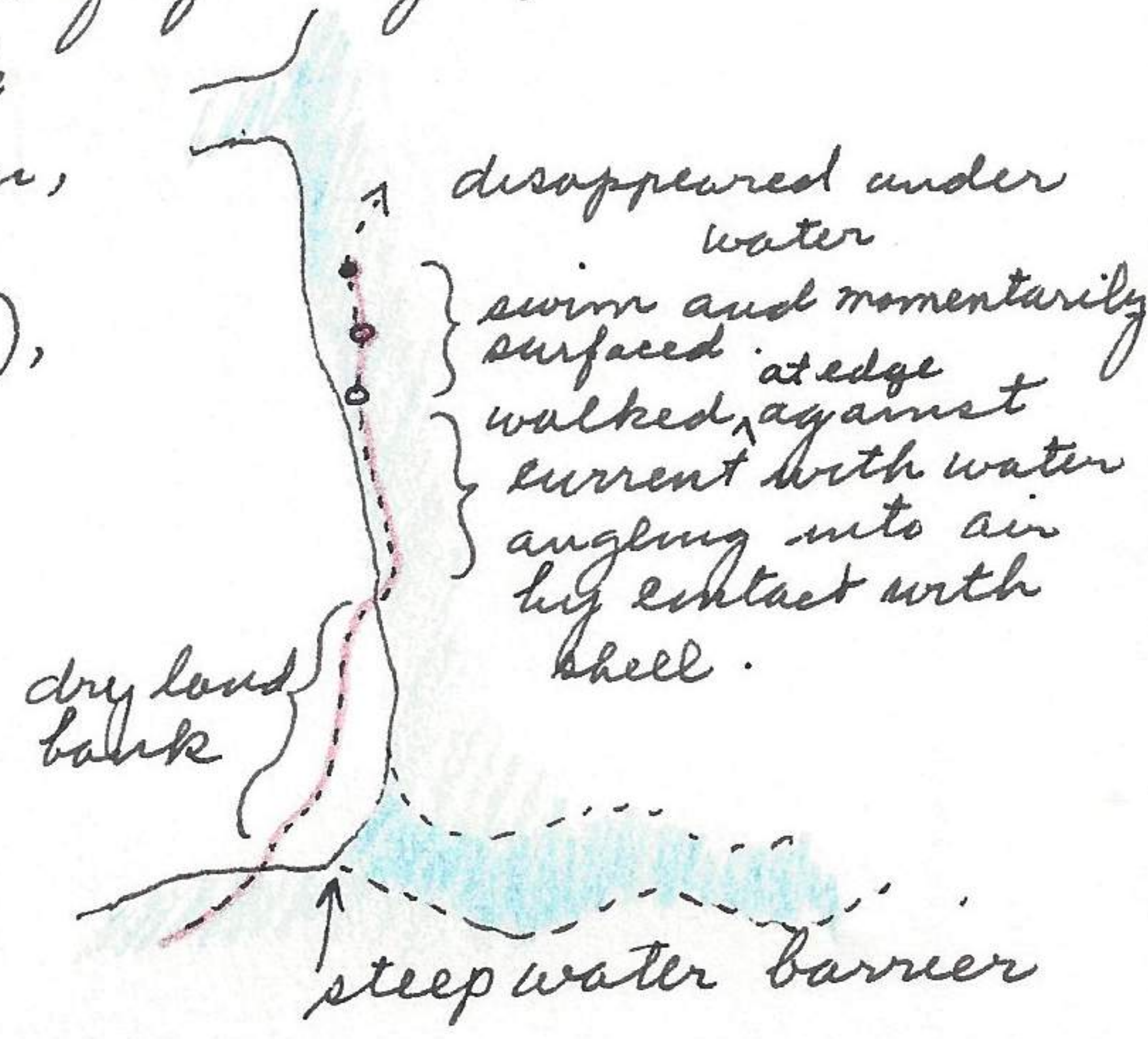
5:45-6:00	26 perch-sunfish size,	1 gar,	19 carp,	3 silver carp-like fish.
6:00-6:15	18 " " " "	0	16 " "	4 " " "

The size of the carp ranged from approx 16" to 3'. The two gar were about 2 feet long and the small fish of all sizes up to 8 inches.

The old channel (east limb) is shallow and water 8 feet wide toward S end. The channel leading into W limb is 3 feet wide and water 2 inches deep. There is considerable turtle action at mouth and channel (east limb), with fast movement of surface waters and air bubbles. The turtles rarely expose body but frequently expose head.



at 5:55 a turtle (flat, smooth, green, small spots, 8 inches (carapace)), gained fall by the following route. This is the only one noted in the approx 3 hrs of observation



disappeared under water } swim and momentarily surfaced at edge } walked against current with water angling into air by contact with shell.