

Barrier Evaluation for Smolt Passage

BARRIER DESCRIPTION:

Stream identification (name, ID number, location of mouth) PORCUPINE R. 113-91-11; PORCUPINE BAY; ISLAS BAY; CHICHAGOFS IS. Date 8-24-79 Observers REIFENSTHUL, PARKER
 Barrier no. 3 and approx. distance (800 m) from stream mouth. Angle of falls \approx 45
 TOTAL - Height of falls 70' Method of measurement: rangefinder, clinometer, steel tape, altimeter, by eye (circle one).
 Altitude of base 120', crest 190' as determined by altimeter quadrangle map (circle one)
 Plunge pool: present? YES; adequate size and depth for smolt passage? YES (FOR ALL - THREE FALL IN SERIES)
 If "no," describe base of falls _____

Present flow conditions: low, moderate, high (circle one).

Character of waterfall: dispersed (misty; branched), concentrated (circle one).

Threatening rock ledges or projections in the falls: absent, few, many (circle one).

These appear a threat to none, few, most, all (circle one) of the emigrants.

BARRIER EVALUATION:

Was a test drop of fish conducted for this barrier? Yes, No (circle one).

If "yes," complete reverse side of this form.

Based on the above features, evaluate this barrier for downstream fish passage:

(A) at present flows: good, questionable, poor (circle one).

(B) at much higher flows (e.g., spring freshets) good, questionable, poor (circle one).

(C) at very low flows: good, questionable, poor (circle one).

COMMENTS AND SKETCHES:

	BARRIER #3 SERIES	HEIGHT	SLOPE	PASSAGE	WIDTH	POOL?	COMMENTS (LEDGES OR OBSTACLES? WATER VELOCITY BARRIER NO OBSTACLES FLOW EVENLY DISTRIBUTED NO OBSTACLES RIVER BED CONSISTS OF SMOOTH BEDROCK NO LEDGE)
Summary	A (BASE)	15'	45°	EXCELLENT	AVE. 2m	YES	
	B	25'	55°	GOOD	25m	YES	
	C (TOP)	30'	40°	EXCELLENT	~15m	YES	

LARGE NARROW POND ABOVE THIS BARRIER, 100m IN LENGTH & 30m IN WIDTH, VERY LITTLE CURRENT, (GREATER THAN 5m DEPTH IN SOME PLACES); GOOD HABITAT FOR JUVENILES.