

Procedure for helicopter radiated underwater noise experiment

0) Initiate contact via VHF channel 81a (back-up communication via Lighthouse land line = (360) 378-4036)

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1) Hold position directly over the hydrophone location at constant altitude (see yellow star on aerial photo and lat-lon on map; location will be marked if possible with a temporary buoy)

2) Maintain these constant altitude (and -- as much as possible -- engine/rotor rpm and other flight control conditions) until a 30-second recording has been made at each altitude:

-- 50'

-- 100'

-- 200'

-- 400'?

-- 750'? (elevation of Fearnbach photogrammetry study)

-- 25' (if weather/etc conditions allow)

Some upper elevations may be skipped if signal is not above ambient noise levels

3) Fly linear, constant altitude (to be determined based on signal to noise observed during step 2) passes over the hydrophone at these constant speeds:

-- 5 knots

-- 10 knots

-- 20 knots

-- 40 knots?


Recordings will be made when pilot begins at one waypoint and ends at the other (direction to be chosen based on weather/etc conditions). See way points on location map.

4) If time allows, repeat step 3 at a different altitude.



Lime Kiln lighthouse
(top ~75' above sea level)

True ~North

Hydrophone 
(~25' depth, 100' offshore,
~125' from WSW side of lighthouse)

