

Table CEAA-203: Sound Levels of Marine-related Project Activities and Estimated Marine Bird Disturbance Zones

Activity	Source Sound Power (dBA, reference 10^{-12} W)*	Source Sound Pressure Level (dBA at 1m, reference 2×10^{-5} Pa)	Area (ha) exceeding 80 dBA threshold	Distance from jetty to reach 80 dBA threshold
1700 HP tub boat	111	65	N/A	N/A
300 HP diesel crane	116	70	N/A	N/A
Impact drop hammer (10,000 lbs)	129	83	4.9	<100m
Loading of aggregate at barge	109	63	N/A	N/A

*Power values based on field measurements, reported literature values, or theoretical/engineering calculations.