Searcher 12/1/048 Reconnaissance Permit Impact Assessment Matrix

Impact	Phase	Pre-Mitigation						Pre-mitigation ER	Post Mitigation						Post-mitigation ER	Confidence	Priority Factor Criteria		Priority Factor	Final score
		Nature	Extent	Duration	Magnitude	Reversibility	Probability		Nature	Extent	Duration	Magnitude	Reversibility	Probability			Cumulative Impact	Irreplaceable loss		
Impacts of seismic noise on mysticetes and odontocetes	Operation	-1	4	1	4	1	4	-10	-1	4	1	3	1	2	-4,5	High	2	1	1,13	-5,0625
Impacts of seismic noise on seals	Operation	-1	4	1	4	1	1	-2,5	-1	4	1	3	1	1	-2,25	High	1	1	1,00	-2,25
Impacts of seismic noise on turtles	Operation	-1	4	1	4	1	3	-7,5	-1	4	1	2	1	2	-4	High	1	1	1,00	-4
Impacts of seismic noise on diving seabirds	Operation	-1	4	1	3	1	3	-6,75	-1	4	1	2	1	2	-4	High	1	1	1,00	-4
Impacts of seismic noise to pelagic fish	Operation	-1	4	1	4	1	3	-7,5	-1	4	1	3	1	2	-4,5	High	2	1	1,13	-5,0625
Impacts of seismic noise to marine invertebrates	Operation	-1	4	1	2	1	2	-4	-1	4	1	1	1	1	-1,75	High	1	1	1,00	-1,75
Impacts of seismic noise to plankton and ichthyoplankton	Operation	-1	4	1	3	1	2	-4,5	-1	4	1	2	1	2	-4	High	1	1	1,00	-4
Disturbance and behavioural changes in seabirds, seals, turtles and cetaceans due to vessel noise	Operation	-1	4	1	2	1	2	-4	-1	4	1	2	1	2	-4	High	2	1	1,13	-4,5
Disturbance and behavioural changes in seabirds, seals, turtles and cetaceans due to noise of support aircraft	Operation	-1	4	1	2	1	2	-4	-1	4	1	2	1	2	-4	High	2	1	1,13	-4,5
Disturbance and behavioural changes in pelagic fauna due to vessel lighting	Operation	-1	4	1	2	1	2	-4	-1	4	1	1	1	2	-3,5	High	1	1	1,00	-3,5
Impacts of marine biodiversity through the introduction of non-native species in ballast water and on ship hulls	Operation	-1	4	1	2	1	2	-4	-1	4	1	2	1	2	-4	High	1	1	1,00	-4
Impacts of normal vessel discharges on marine fauna	Operation	-1	4	1	1	1	3	-5,25	-1	4	1	1	1	3	-5,25	High	1	1	1,00	-5,25
Impacts on turtles and cetaceans due to ship strikes, collision and entanglement with towed equipment	Operation	-1	4	1	2	1	1	-2	-1	4	1	1	1	1	-1,75	High	1	1	1,00	-1,75
Impacts on benthic and pelagic fauna due to accidental loss of equipment to the seabed or the water column	Operation	-1	4	1	2	2	1	-2,25	-1	4	1	1	2	1	-2	High	1	1	1,00	-2
Impacts of an operational spill or collision on marine fauna	Operation	-1	4	2	5	3	2	-7	-1	3	1	3	3	2	-5	High	1	1	1,00	-5
Impacts on Cultural Heritage	Operation	-1	4	4	3	3	4	-14	-1	4	3	1	3	3	-8,25	Medium	1	1	1,00	-8,25
Impacts on livelihoods	Operation	-1	4	4	4	3	4	-11,25	-1	4	3	3	3	3	-9,75	Medium	2	3	1,38	-13,40625
Impacts on sense and spirit of place	Operation	-1	4	5	3	3	3	-11,25	-1	4	5	3	3	3	-11,25	Medium	2	3	1,38	-15,46875
Impacts on social licence to operate	Operation	-1	4	4	5	4	5	-21,25	-1	4	2	4	3	4	-13	High	2	2	1,25	-16,25
Community expectations	Operation	-1	4	4	4	3	4	-15	-1	4	2	3	2	4	-11	High	2	3	1,38	-15,125
Social unrest	Operation	-1	4	2	3	3	3	-9	-1	4	2	3	2	3	-8,25	High	2	1	1,13	-9,28125
Uncertainty	Operation	-1	4	3	4	3	5	-17,5	-1	4	2	3	2	4	-11	High	3	2	1,38	-15,125
Stakeholder Fatigue	Operation	-1	4	3	4	3	5	-17,5	-1	4	3	4	3	4	-14	High	2	1	1,13	-15,75
Concerns about cumulative impacts	Operation	-1	4	4	4	3	5	-18,75	-1	4	2	3	2	4	-11	High	3	3	1,50	-16,5
Further marginilization of vulnerable groups	Operation	-1	4	4	4	3	5	-18,75	-1	4	2	3	2	4	-11	High	3	3	1,50	-16,5
Impacts of exclusion from fishing ground on the large pelagic longline sector due to the safety zone around the survey vessel	Operation	-1	4	1	4	1	4	-10	-1	4	1	4	1	3	-7,5	High	2	1	1,13	-8,4375
Impacts of increased ambient sound on the large pelagic longline sector	Operation	-1	4	1	4	1	4	-10	-1	4	1	4	1	3	-7,5	High	2	1	1,13	-8,4375
Impacts of an operational spill on the large pelagic longline sector	Operation	-1	4	2	3	3	1	-3	-1	3	1	2	3	1	-2,25	Medium	1	1	1,00	-2,25
Impacts of the unplanned loss of equipment to sea from the survey vessel	Operation	-1	4	2	2	2	1	-2,5	-1	4	1	1	2	1	-2	High	1	1	1,00	-2