

Rev B 1/29/17										
Magnet Flux Density in Gap from one Nd-Fe-B Magnet		1.22								
Type of Field (DC=2, AC=3)		3								
Avg Number of Magnets on Rim		100								
Item	Distance	Magnetic Flux Density						Comment	Reference	Page
	meters	nanoTesla	milliGauss	microTesla	Gauss	milliTesla	Tesla			
Magnetic Field Emissions Into Seawater from OpenHydro Flooded Seawater Gap and overlapping magnetic fields. One Nd-Fe-B Magnet Flux Density is 1.22 Tesla.	10	122000000	1220000	122000	1220.000	122.000	0.122000		<a href="https://www.researchgate.net/publication/271467625_Modeling_of_the_generator_for_OpenHydro's_tidal_energy_system">https://www.researchgate.net/publication/271467625_Modeling_of_the_generator_for_OpenHydro's_tidal_energy_system</a>	2
	50	976000	9760.0	976.00	9.7600	0.97600	0.000976			
	100	122000	1220	122	1.220	0.122	0.000122		<a href="https://www.researchgate.net/publication/273912761_Design_and_Performance_Analysis_of_Double_Stator_Axial_Flux_P_M_Generator_for_Rim_Driven_Marine_Current_Turbines">https://www.researchgate.net/publication/273912761_Design_and_Performance_Analysis_of_Double_Stator_Axial_Flux_P_M_Generator_for_Rim_Driven_Marine_Current_Turbines</a>	4 - Table II
	150	36148	361.48	36.15	0.36	0.04	0.00004			
	200	15250	153	15	0.15	0.02	0.00002			
	500	976	10	1	0.01	0.00	0.00000			
	1000	122	1	0	0.00	0.00	0.00000			
2500	8	0.08	0.01	0.00	0.00	0.00000				
Magnetic Field Around Power Cable in Seawater	1.5	30	0.3	0.03	0.0003	0.00003	3E-08		<a href="http://fundyforce.ca/wp-content/uploads/2012/05/Appendix-I-Assessment-of-Potential-Ecosystem-Effects-from-Electromagnetic-Fields.pdf">http://fundyforce.ca/wp-content/uploads/2012/05/Appendix-I-Assessment-of-Potential-Ecosystem-Effects-from-Electromagnetic-Fields.pdf</a>	19
Postulated detection limits for sensitive marine species		3	0.03	0.003	0.00003	0.000003	3E-09		<a href="http://fundyforce.ca/wp-content/uploads/2012/05/Appendix-I-Assessment-of-Potential-Ecosystem-Effects-from-Electromagnetic-Fields.pdf">http://fundyforce.ca/wp-content/uploads/2012/05/Appendix-I-Assessment-of-Potential-Ecosystem-Effects-from-Electromagnetic-Fields.pdf</a>	25
Whale and dolphins		50	0.5	0.05	0.0005	0.00005	5E-08	Increased Strandings	<a href="http://oregonwave.org/oceanic/wp-content/uploads/2015/04/OWET-EMF-on-Marine-Species_FINAL_Full_web.pdf">http://oregonwave.org/oceanic/wp-content/uploads/2015/04/OWET-EMF-on-Marine-Species_FINAL_Full_web.pdf</a>	11
Sea Urchins		10000	100	10	0.1	0.01	0.00001	delay in the mitotic cycle of early urchin embryos. increase greatly the incidence of exogastrulation, a mental abnormality	<a href="http://oregonwave.org/oceanic/wp-content/uploads/2015/04/OWET-EMF-on-Marine-Species_FINAL_Full_web.pdf">http://oregonwave.org/oceanic/wp-content/uploads/2015/04/OWET-EMF-on-Marine-Species_FINAL_Full_web.pdf</a>	15
Rainbow Trout		5000	50	5	0.05	0.005	0.000005	increased oxygen uptake in embryos. Breathing process of embryos was more pronounced	<a href="http://oregonwave.org/oceanic/wp-content/uploads/2015/04/OWET-EMF-on-Marine-Species_FINAL_Full_web.pdf">http://oregonwave.org/oceanic/wp-content/uploads/2015/04/OWET-EMF-on-Marine-Species_FINAL_Full_web.pdf</a>	16
Brown Trout		1300	13	1.3	0.013	0.0013	1.3E-06	slowed the embryonic development	<a href="http://oregonwave.org/oceanic/wp-content/uploads/2015/04/OWET-EMF-on-Marine-Species_FINAL_Full_web.pdf">http://oregonwave.org/oceanic/wp-content/uploads/2015/04/OWET-EMF-on-Marine-Species_FINAL_Full_web.pdf</a>	16
Rainbow/Brown Trout		500	5	0.5	0.005	0.0005	5E-07	induced significantly strong orientation responses in embryos	<a href="http://oregonwave.org/oceanic/wp-content/uploads/2015/04/OWET-EMF-on-Marine-Species_FINAL_Full_web.pdf">http://oregonwave.org/oceanic/wp-content/uploads/2015/04/OWET-EMF-on-Marine-Species_FINAL_Full_web.pdf</a>	16
Blue Mussels		5800	58	5.8	0.058	0.0058	5.8E-06	20% decrease in hydration and a 15% decrease in amine nitrogen values	<a href="http://oregonwave.org/oceanic/wp-content/uploads/2015/04/OWET-EMF-on-Marine-Species_FINAL_Full_web.pdf">http://oregonwave.org/oceanic/wp-content/uploads/2015/04/OWET-EMF-on-Marine-Species_FINAL_Full_web.pdf</a>	17
Japanese Eels		192473	1925	192.473	1.92473	0.192473	0.000192	slowing of the heartbeat	<a href="http://oregonwave.org/oceanic/wp-content/uploads/2015/04/OWET-EMF-on-Marine-Species_FINAL_Full_web.pdf">http://oregonwave.org/oceanic/wp-content/uploads/2015/04/OWET-EMF-on-Marine-Species_FINAL_Full_web.pdf</a>	17