

Sea lice monitoring 12. October 2017 Arctic Sea Farm, Gemlufall (Dýrafjörður)

Sea lice monitoring at the Arctic Sea Farm hf. mariculture site in Gemlufall (Dýrafjörður) was conducted on the 12 October 2017 by Cristian Gallo, project manager at Náttúrustofu Vestfjarða, based on the guidelines from Matvælastofnunar (Mast, 2014).

There are ten cages at the mariculture site in Gemlufall, but only seven contained salmon at the date of this monitoring. Cages G1 and G10 were stocked at the end of June/beginning of July. Cage G3 was stocked at the beginning of August. Salmon from G8 was moved to G3 in September. Cages G6 and G7 were stocked at the end of August, while cages G4 and G5 were stocked in September. All cages stocked with fish were monitored.

The sea temperature was 9,5 °C. The boat *Hafnarnes*, captained by Jón Magnússon, was used for the monitoring.

The results of the monitoring are in Table 1. Information regarding the number of fish and the average weight in the cages were given by Bernharður Guðmundsson, who is an employee at Arctic Sea Farm. All *Lepeophtheirus salmonis* and a few of *Caligus sp* were taken and are kept in Náttúrustofa Vestfjarða. Due to the amount of sea lice the number of fast lice could not be properly monitored. More accurate identification of the collected *Caligus sp* seems to confirm the species is *Caligus elongatus*. Detailed results regarding number of *Caligus elongatus* per fish sampled are in Table 2.

Table 1. Results from sea lice monitoring conducted the 12 October 2017 at the mariculture site in Gemlufall.

Cage	Number of fishes in cage	Avg. weight (gr)	Fishes check	Avg. of <i>Caligus sp</i>	<i>Lepeophtheirus salmonis</i>			Athugasemdir
					F	H	K	
G1	86.874	728	10	34,7				
G3	134.773	314	11	18,8		1		
G4	105.589	140	11	17,3				
G5	93.694	152	10	16,2				
G6	147.304	144	10	28,0				
G7	100.857	157	15	36,9				
G10	89.943	1035	10	32,7			1	Without egg strings

F= Fast lice

H= Pre-adult motile stage or male lice.

K= Adult female lice (with or without egg stings).

Tafla 2. Result of sea lice (*Caligus sp*) count during monitoring in Gemlufall (Dýrafjörður) 12. October 2017.

Fiskur nr.	G1	G3	G4	G5	G6	G7	G10
1	45	12	15	7	59	68	35
2	40	20	10	10	31	40	20
3	43	16	16	14	25	45	42
4	33	22	11	15	30	38	30
5	18	30	20	35	27	44	45
6	28	18	15	22	12	39	35
7	46	14	27	11	16	33	20
8	26	12	25	11	35	33	25
9	40	21	13	22	25	25	43
10	28	17	31	15	20	52	32
11		25	8			38	
12						38	
13						25	
14						20	
15						16	
Samtals	347	207	191	162	280	554	327

Cristian Gallo, Bolungarvík, 13. October 2017.

