

The following supplement accompanies the article

Spatio-temporal dynamics in the dissolved nutrient waste plume from Norwegian salmon cage aquaculture

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Supplementary Materials 1. Statistical output from Two-Way Nested ANOVA analysis with fixed factors for Site (Farm versus Reference) and Station (S2, S3, S15, S16) for each depth interval separately in April and September 2013.

Season	Depth	Source	df	Total Nitrogen (TN)			Total Phosphorus (TP)			Total Ammonia Nitrogen (TAN)			Phosphate (PO ₄)		
				SS	F	p	SS	F	p	SS	F	p	SS	F	p
April	1m	Site	1	0.675	0.20	0.6666	0.035	3.12	0.1153	0.198	34.33	0.0004	0.001	3.69	0.0911
		Station (Site)	2	3.597	0.53	0.6063	0.032	1.43	0.2948	0.079	6.82	0.0187	0.000	0.19	0.8291
		Error	8	26.993			0.091			0.046			0.002		
		Total	11	31.265			0.159 0.0009			0.323			0.004		
	5m	Site	1	1.562	2.26	0.1712	0.001	0.53	0.4887	0.024	78.05	<0.0001	0.005	0.97	0.3531
		Station (Site)	2	4.035	2.92	0.1117	0.001	0.40	0.6840	0.036	5.78	0.0280	0.012	1.14	0.3663
		Error	8	5.530			0.014			0.025			0.040		
		Total	11	11.127			0.016			0.302			0.057		
	10m	Site	1	0.128	0.04	0.8387	0.068	2.85	0.1301	0.144	103.27	<0.0001	0.001	25.08	0.0010
		Station (Site)	2	2.282	0.39	0.6863	0.091	1.90	0.2108	0.115	82.47	<0.0001	0.000	2.76	0.1229
		Error	8	23.117			0.191			0.011			0.000		
		Total	11	25.527			0.350			0.384			0.001		
	15m	Site	1	0.237	0.06	0.8185	0.002	0.22	0.6495	0.142	77.98	<0.0001	0.001	9.45	0.0153
		Station (Site)	2	4.313	0.51	0.6179	0.005	0.25	0.7867	0.258	70.83	<0.0001	0.000	1.86	0.2167
		Error	8	33.726			0.086			0.015			0.001		
		Total	11	38.276			0.094			0.414			0.002		
	20m	Site	1	0.242	0.13	0.7309	0.280	1.25	0.2965	0.054	10.30	0.0124	0.001	1.58	0.2448
		Station (Site)	2	0.552	0.14	0.8673	0.475	1.06	0.3918	0.303	28.94	0.0002	0.001	0.36	0.7109
		Error	8	15.240			1.798			0.042			0.005		
		Total	11	16.034			2.554			0.400			0.007		

Season	Depth	Source	df	Total Nitrogen (TN)			Total Phosphorus (TP)			Total Ammonia Nitrogen (TAN)			Phosphate (PO ₄)		
				SS	F	p	SS	F	p	SS	F	p	SS	F	p
September	1m	Site	1	8.464	21.72	0.0016	0.093	17.80	0.0029	8.307	222.99	<0.0001	0.069	11.36	0.0098
		Station (Site)	2	5.714	7.33	0.0155	0.011	1.07	0.3871	1.724	23.14	0.0005	0.001	0.07	0.9305
		Error	8	3.117			0.042			0.298			0.049		
		Total	11	17.294			0.146			10.329			0.119		
	5m	Site	1	0.593	1.60	0.2414	0.005	7.79	0.0235	0.171	12.49	0.0077	0.004	10.02	0.0133
		Station (Site)	2	1.653	2.23	0.1698	0.009	7.63	0.0140	0.307	11.20	0.0048	0.004	5.02	0.0386
		Error	8	2.964			0.005			0.110			0.003		
		Total	11	5.210			0.019			0.588			0.011		
	10m	Site	1	2.093	5.12	0.0534	0.007	10.65	0.0115	0.346	117.73	<0.0001	0.004	6.15	0.0381
		Station (Site)	2	0.501	0.61	0.5652	0.004	2.73	0.1251	0.688	117.06	<0.0001	0.005	3.13	0.0992
		Error	8	3.269			0.006			0.023			0.006		
		Total	11	5.864			0.017			1.057			0.015		
	15m	Site	1	0.001	0.00	0.9829	0.007	7.97	0.0224	0.605	35.27	0.0003	0.001	5.33	0.0497
		Station (Site)	2	0.016	0.01	0.9946	0.000	0.15	0.8597	0.235	6.84	0.0185	0.001	6.83	0.0186
		Error	8	11.576			0.007			0.137			0.001		
		Total	11	11.593			0.015			0.977			0.003		
	20m	Site	1	2.290	3.04	0.1191	0.011	4.61	0.0640	2.108	21.06	0.0018	0.004	14.69	0.0050
		Station (Site)	2	0.584	0.39	0.6903	0.007	1.42	0.2977	1.889	9.44	0.0079	0.009	15.14	0.0019
		Error	8	6.016			0.011			0.801			0.002		
		Total	11	8.890			0.038			4.798			0.016		