

The vessel will maintain a listening watch on Marine VHF Channels 14 and 11 and display appropriate lights and day marks in accordance with the International Regulations for Preventing Collisions at Sea.



Coordinates of the vibrocore sampling locations are shown in Table 1.

Coordinates of the grab sampling locations are shown in Table 2. All sampling locations are displayed on Figure 1.

For further information, please contact: Rob Langman, MarineSpace Ltd, **Tel:** +44 (0)2380 381945, **Email:** rob.langman@marinespace.co.uk or Sunderland Port Control (LPS) on 0191 514 2752 or Marine VHF Channel 14 (call-sign Sunderland Harbour Radio).

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Dated the 21st day of February, 2017.

Table.1: Vibrocore sampling location coordinates (WGS84, Degrees Minutes Seconds)

Location	Latitude			Longitude		
1	54°	54.61906	N	1°	22.92005	W
2	54°	54.59852	N	1°	22.92036	W
3	54°	54.57626	N	1°	22.9207	W
4	54°	54.64404	N	1°	22.78298	W
5	54°	54.62177	N	1°	22.78034	W
6	54°	54.59948	N	1°	22.77475	W
7	54°	54.65878	N	1°	22.652	W
8	54°	54.63652	N	1°	22.65235	W
9	54°	54.61258	N	1°	22.65569	W
10	54°	54.651	N	1°	22.47086	W
11	54°	54.62708	N	1°	22.48015	W
12	54°	54.59625	N	1°	22.47766	W
13	54°	54.64883	N	1°	22.38175	W
14	54°	54.6691	N	1°	22.32795	W
15	54°	54.6893	N	1°	22.26226	W
16	54°	54.58864	N	1°	22.3292	W
17	54°	54.60716	N	1°	22.26949	W
18	54°	54.71378	N	1°	21.70323	W
19	54°	54.65014	N	1°	21.64778	W
20	54°	54.5784	N	1°	21.67862	W
21	54°	54.51813	N	1°	21.61124	W
22	54°	54.4413	N	1°	21.65108	W
23	54°	54.38616	N	1°	21.58362	W

Table.2: Grab sampling location coordinates (WGS84, Degrees Minutes Seconds)

Location	Latitude			Longitude		
1	54°	54.71404	N	1°	21.6864	W
2	54°	54.44252	N	1°	21.63157	W
3	54°	54.56584	N	1°	21.65375	W
4	54°	54.62423	N	1°	22.76288	W
5	54°	54.64159	N	1°	22.76793	W
6	54°	54.6038	N	1°	22.75436	W
7	54°	54.61692	N	1°	22.92754	W
8	54°	54.59654	N	1°	22.92785	W
9	54°	54.57615	N	1°	22.92817	W
10	54°	54.64821	N	1°	22.46882	W
11	54°	54.59404	N	1°	22.43958	W
12	54°	54.61959	N	1°	22.45334	W
13	54°	54.34259	N	1°	21.60601	W
14	54°	54.67445	N	1°	22.31888	W
15	54°	54.61423	N	1°	22.26039	W
16	54°	54.64527	N	1°	22.29166	W
17	54°	54.77074	N	1°	22.08625	W
18	54°	54.78424	N	1°	22.12236	W
19	54°	54.7987	N	1°	22.16011	W

Table.3: Trawl sampling location coordinates (WGS84, Degrees Decimal Minutes)

Location		Latitude		Longitude		
1	Start	54°	54.6544'	N	1°	23.3448'
1	End	54°	54.5911'	N	1°	23.0209'
2	Start	54°	54.6278'	N	1°	22.7432'
2	End	54°	54.6207'	N	1°	22.4135'
3	Start	54°	54.7737'	N	1°	22.1345'
3	End	54°	54.9144'	N	1°	21.9777'
4	Start	54°	54.6439'	N	1°	21.6689'
4	End	54°	54.4619'	N	1°	21.6294'

Figure. 1: Vibrocore (sediment quality) grab sample and trawl (marine ecology) locations within the River Wear, Sunderland

