

<sup>(1)</sup> LYME REGIS MARINE SEDIMENT ANALYSIS: POLYCYCLIC AROMATIC HYDROCARBONS								
SUBSTANCE		SAMPLE					<sup>(2)</sup> BENCHMARK LIMITS	
		Z1LR	Z2LR	Z3LR	Z4LR	Z5LR	<sup>(3)</sup> TEL	<sup>(4)</sup> PEL
Acenaphthene	µg/Kg (Dry Weight)	2.20	<1	<1	<1	<1	6.71	88.9
Acenaphthylene	µg/Kg (Dry Weight)	2.63	<1	<1	<1	<1	5.87	128
Anthracene	µg/Kg (Dry Weight)	6.10	1.52	<1	<1	<1	46.9	245
Benzo(a)anthracene	µg/Kg (Dry Weight)	20.7	5.53	2.56	2.51	2.61	74.8	693
Benzo(a)pyrene	µg/Kg (Dry Weight)	21.9	5.95	3.17	3.15	3.02	88.8	763
Chrysene	µg/Kg (Dry Weight)	20.5	5.55	2.67	3.08	2.63	108	846
Dibenzo(a,h)anthracene	µg/Kg (Dry Weight)	3.39	<1	<1	<1	<1	6.22	135
Fluoranthene	µg/Kg (Dry Weight)	38.7	11.9	4.93	2.97	5.05	113	1494
Fluorene	µg/Kg (Dry Weight)	3.41	<1	<1	<1	<1	21.2	144
Naphthalene	µg/Kg (Dry Weight)	13.3	<1	<1	<1	<1	34.6	391
Phenanthrene	µg/Kg (Dry Weight)	18.4	5.97	1.41	<1	1.38	86.7	544
Pyrene	µg/Kg (Dry Weight)	35.4	9.33	4.33	2.75	4.59	153	1398

Colour Key	
	Range where adverse effects rarely occur
	Range where adverse effects occasionally occur
	Range where adverse effects frequently occur

Notes:	
(1)	Analysis was done by a laboratory accredited by the <i>United Kingdom Accreditation Service</i> . No sample deviations which could compromise the integrity of the results were reported.
(2)	<b>Table 2. Interim marine sediment quality guidelines (ISQGs: dry weight), probable effect levels (PEL's; dry weight), and incidence (%) of adverse biological effects in concentration ranges defined by these values</b> of the <i>Canadian Sediment Quality Guidelines for the Protection of Aquatic Life</i> . The guidance uses Threshold Effect Levels (TEL) and Probable Effect Levels (PEL). The levels are used to identify the three ranges of chemical concentrations, with regard to biological effects. <i>The first very adverse effects rarely occur, the second where adverse effects may occasionally occur and the third where adverse effects frequently occur.</i>
(3)	Threshold Effect Level. The minimal effect range within which adverse effects rarely occur.
(4)	Probable Effect Level - The probable effect range within which adverse effects frequently occur.