

Certificate of Analysis

Issuing Laboratory SOCOTEC, Marine Department, Advanced Chemistry and Research, Etwall House, Bretby Business Park, Ashby Road, Burton-upon-Trent DE15 0YZ



Test Report ID MAR02669

Issue Version: 1

Customer: Associated British Ports, Queen Alexandra House, Cargo Road, Cardiff, CF10 4LY

Customer Reference: Barry - MMO Analysis

Date Sampled: 07-May-25

Date Samples Received: 15-May-25

Test Report Date: 18-Jun-25

Condition of samples: Cold Deviating

Opinions and Interpretations expressed herein are outside the scope of our UKAS accreditation
The results reported relate only to the sample tested
The results apply to the sample as received

JM Colbourne

Authorised by: Jane Colbourne

Position: Customer Service Specialist



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Test Report ID MAR02669
Issue Version 1
Customer Reference Barry - MMO Analysis

		Units	% M/M	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)
		Method No	WSLM59*	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01
		Accreditation	UKAS/MMO	MMO	MMO	MMO	MMO	MMO	MMO
			Total Organic Carbon	45mm	31.5mm	22.4mm	16mm	11.2mm	8mm
Client Reference:	SOCOTEC Ref:	Matrix	-	-5.5	-5.0	-4.5	-4.0	-3.5	-3.0
A	MAR02669.001	Sediment	2.45	0.00	0.00	0.00	0.00	0.00	0.00
B*	MAR02669.002	Sediment	2.43	0.00	0.00	0.00	0.00	0.00	0.00
C	MAR02669.003	Sediment	2.39	0.00	0.00	0.00	0.00	0.00	0.00
D	MAR02669.004	Sediment	2.30	0.00	0.00	0.00	0.00	0.00	0.00
E*	MAR02669.005	Sediment	2.28	0.00	0.00	0.00	0.00	0.00	0.00
F	MAR02669.006	Sediment	2.28	0.00	0.00	0.00	0.00	0.00	0.00

* See Report Notes

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		Units	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)
		Method No	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01
		Accreditation	MMO	MMO	MMO	MMO	MMO	MMO	MMO
			5.6mm	4mm	2.8mm	2mm	1.4mm	1mm	707µm
Client Reference:	SOCOTEC Ref:	Matrix	-2.5	-2.0	-1.5	-1.0	-0.5	0.0	0.5
A	MAR02669.001	Sediment	0.00	0.00	0.00	0.00	0.00	0.00	0.00
B*	MAR02669.002	Sediment	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C	MAR02669.003	Sediment	0.00	0.00	0.00	0.00	0.00	0.00	0.00
D	MAR02669.004	Sediment	0.00	0.00	0.00	0.00	0.00	0.00	0.00
E*	MAR02669.005	Sediment	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F	MAR02669.006	Sediment	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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		Method No	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01
		Accreditation	MMO	MMO	MMO	MMO	MMO	MMO	MMO
			500µm	353.6µm	250µm	176.8µm	125µm	88.39µm	63µm
Client Reference:	SOCOTEC Ref:	Matrix	1.0	1.5	2.0	2.5	3.0	3.5	4.0
A	MAR02669.001	Sediment	0.00	0.00	0.00	0.00	0.00	0.53	2.66
B*	MAR02669.002	Sediment	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C	MAR02669.003	Sediment	0.00	0.00	0.00	0.00	0.00	0.00	0.26
D	MAR02669.004	Sediment	0.00	0.00	0.00	0.01	1.16	3.62	3.54
E*	MAR02669.005	Sediment	0.00	0.00	0.00	0.01	0.66	1.71	2.70
F	MAR02669.006	Sediment	0.00	0.00	0.00	0.00	0.00	0.00	0.21

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		Units	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)
		Method No	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01
		Accreditation	MMO	MMO	MMO	MMO	MMO	MMO	MMO
			44.2µm	31.3µm	22.1µm	15.6µm	11µm	7.8µm	5.5µm
Client Reference:	SOCOTEC Ref:	Matrix	4.5	5.0	5.5	6.0	6.5	7.0	7.5
A	MAR02669.001	Sediment	3.34	4.66	5.70	9.09	11.58	12.25	12.08
B*	MAR02669.002	Sediment	0.66	5.87	6.16	9.61	12.00	12.22	12.10
C	MAR02669.003	Sediment	3.33	4.94	6.13	9.45	12.01	12.79	12.59
D	MAR02669.004	Sediment	4.34	5.24	5.98	8.81	10.48	10.83	10.75
E*	MAR02669.005	Sediment	4.20	5.59	6.96	10.39	12.98	12.92	11.62
F	MAR02669.006	Sediment	4.46	5.92	6.70	9.96	12.09	12.55	12.14

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		Units	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)
		Method No	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01
		Accreditation	MMO	MMO	MMO	MMO	MMO	MMO	MMO
			3.9µm	2.75µm	1.95µm	1.38µm	0.98µm	0.69µm	0.49µm
Client Reference:	SOCOTEC Ref:	Matrix	8.0	8.5	9.0	9.5	10.0	10.5	11.0
A	MAR02669.001	Sediment	10.27	7.57	4.94	3.20	2.28	1.93	1.89
B*	MAR02669.002	Sediment	10.58	8.13	5.50	3.64	2.61	2.19	2.10
C	MAR02669.003	Sediment	10.64	7.78	4.97	3.13	2.21	1.89	1.83
D	MAR02669.004	Sediment	9.23	6.88	4.53	2.98	2.16	1.83	1.77
E*	MAR02669.005	Sediment	9.04	6.18	3.74	2.28	1.62	1.40	1.35
F	MAR02669.006	Sediment	10.13	7.36	4.68	2.93	2.05	1.72	1.63

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		Units	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)	% (at 0.5phi intervals)
		Method No	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01	*SUB_01
		Accreditation	MMO	MMO	MMO	MMO	MMO	MMO	MMO
			0.34µm	0.24µm	0.17µm	0.12µm	0.09µm	0.06µm	0.04µm
Client Reference:	SOCOTEC Ref:	Matrix	11.5	12.0	12.5	13.0	13.5	14.0	14.5
A	MAR02669.001	Sediment	1.85	1.61	1.17	0.79	0.44	0.16	0.02
B*	MAR02669.002	Sediment	2.02	1.76	1.28	0.87	0.49	0.18	0.02
C	MAR02669.003	Sediment	1.78	1.57	1.18	0.83	0.49	0.19	0.02
D	MAR02669.004	Sediment	1.72	1.52	1.14	0.80	0.47	0.18	0.02
E*	MAR02669.005	Sediment	1.29	1.15	0.91	0.68	0.42	0.17	0.02
F	MAR02669.006	Sediment	1.55	1.37	1.06	0.78	0.48	0.19	0.02

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		Units	% (at 0.5phi intervals)
		Method No	*SUB_01
		Accreditation	MMO
			<0.04µm
Client Reference:	SOCOTEC Ref:	Matrix	>14.5
A	MAR02669.001	Sediment	0.00
B*	MAR02669.002	Sediment	0.00
C	MAR02669.003	Sediment	0.00
D	MAR02669.004	Sediment	0.00
E*	MAR02669.005	Sediment	0.00
F	MAR02669.006	Sediment	0.00

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		Units	mg/Kg (Dry Weight)							
		Method No	ICPMSS*							
		Limit of Detection	0.5	0.04	0.5	0.5	0.01	0.5	0.5	2
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	Arsenic (As)	Cadmium (Cd)	Chromium (Cr)	Copper (Cu)	Mercury (Hg)	Nickel (Ni)	Lead (Pb)	Zinc (Zn)
A	MAR02669.001	Sediment	11.4	0.33	39.8	43.9	0.23	31.7	62.6	230
B*	MAR02669.002	Sediment	11.9	0.31	39.1	42.3	0.25	33.3	69.6	240
C	MAR02669.003	Sediment	13.9	0.25	37.1	24.7	0.19	30.0	57.9	210
D	MAR02669.004	Sediment	13.3	0.20	35.2	21.8	0.19	29.2	54.3	187
E*	MAR02669.005	Sediment	15.6	0.17	40.9	23.1	0.20	34.4	63.9	202
F	MAR02669.006	Sediment	14.4	0.22	36.0	22.7	0.20	32.3	61.3	190
Certified Reference Material SETOC 768 (% Recovery)			98	117	103	103	104	105	99	106
QC Blank			<0.5	<0.04	<0.5	<0.5	<0.01	<0.5	<0.5	<2

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		Units	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)
		Method No	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304
		Limit of Detection	1	1	1	1	1	1	1	1
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	ACENAPTH	ACENAPHY	ANTHRACN	BAA	BAP	BBF	BENZGHIP	BEP
A	MAR02669.001	Sediment	60.2	48.0	111	314	428	544	405	434
B*	MAR02669.002	Sediment	55.9	42.0	107	280	389	485	382	379
C	MAR02669.003	Sediment	259	205	524	1420	1790	2250	1660	1750
D	MAR02669.004	Sediment	184	157	360	1010	1270	1540	1160	1200
E*	MAR02669.005	Sediment	67.0	33.2	87.3	219	285	379	294	298
F	MAR02669.006	Sediment	45.0	33.4	82.8	220	280	372	279	287
Certified Reference Material Nist 1941b (% Recovery)			67	112	70	72	70	94	79	99
QC Blank			<1	<1	<1	<1	<1	<1	<1	<1

~ Indicates result is for an In-house Reference Material as no Certified Reference Materials are available.

For full analyte name see method summaries.

*See report notes

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		Units	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)
		Method No	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304
		Limit of Detection	1	1	1	1	1	1	1	1
		Accreditation	UKAS/MMO	MMO	MMO	MMO	MMO	MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	BKF*	C1N	C1PHEN	C2N	C3N	CHRYSENE*	DBENZAH	FLUORANT
A	MAR02669.001	Sediment	402	452	399	350	246	461	92.9	597
B*	MAR02669.002	Sediment	359	343	338	312	194	409	85.8	549
C	MAR02669.003	Sediment	1680	1830	1890	1470	988	2110	391	2770
D	MAR02669.004	Sediment	1180	1190	1160	962	698	1460	280	1940
E*	MAR02669.005	Sediment	280	327	333	262	177	344	70.4	432
F	MAR02669.006	Sediment	264	329	327	266	186	335	67.5	423
Certified Reference Material Nist 1941b (% Recovery)			88	75	92	110	102	94	115	86
QC Blank			<1	<1	<1	<1	<1	<1	<1	<1

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		Units	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)	µg/Kg (Dry Weight)
		Method No	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304	ASC/SOP/303/304
		Limit of Detection	1	1	1	1	1	1
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	FLUORENE	INDPYR	NAPTH	PERYLENE	PHENANT	PYRENE
A	MAR02669.001	Sediment	134	391	226	187	421	480
B*	MAR02669.002	Sediment	120	390	179	164	375	441
C	MAR02669.003	Sediment	577	1680	938	688	2000	2180
D	MAR02669.004	Sediment	399	1190	651	484	1330	1510
E*	MAR02669.005	Sediment	102	274	166	116	353	334
F	MAR02669.006	Sediment	103	281	170	115	340	330
Certified Reference Material Nist 1941b (% Recovery)			50	81	59	65	86	76
QC Blank			<1	<1	<1	<1	<1	<1

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		Units	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)
		Method No	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302
		Limit of Detection	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	PCB 101	PCB 105	PCB 110	PCB 118	PCB 128	PCB 138	PCB 141
A	MAR02669.001	Sediment	0.00219	0.00109	0.00376	0.00300	0.00072	0.00331	0.00060
B*	MAR02669.002	Sediment	0.00224	0.00121	0.00388	0.00309	0.00064	0.00343	0.00060
C	MAR02669.003	Sediment	0.00225	0.00102	0.00351	0.00305	0.00071	0.00300	0.00085
D	MAR02669.004	Sediment	0.00174	0.00085	0.00281	0.00220	0.00052	0.00265	0.00052
E*	MAR02669.005	Sediment	0.00210	0.00101	0.00309	0.00266	0.00061	0.00318	0.00051
Certified Reference Material Nist 1941b (% Recovery)			82	84	99	74	75	92	117~
QC Blank			<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008

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		Units	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)
		Method No	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302
		Limit of Detection	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	PCB 149	PCB 151	PCB 153	PCB 156	PCB 158	PCB 170	PCB 18
A	MAR02669.001	Sediment	0.00281	0.00098	0.00445	0.00031	0.00054	0.00137	0.00253
B*	MAR02669.002	Sediment	0.00330	0.00075	0.00495	0.00030	0.00055	0.00143	0.00294
C	MAR02669.003	Sediment	0.00299	0.00082	0.00410	0.00036	0.00050	0.00131	0.00235
D	MAR02669.004	Sediment	0.00220	0.00079	0.00359	0.00027	0.00056	0.00103	0.00210
E*	MAR02669.005	Sediment	0.00283	0.00072	0.00400	0.00034	0.00054	0.00128	0.00221
Certified Reference Material Nist 1941b (% Recovery)			86	115~	97	56	68	94	89
QC Blank			<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008

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		Units	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)
		Method No	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302
		Limit of Detection	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	PCB 180	PCB 183	PCB 187	PCB 194	PCB 28	PCB 31	PCB 44
A	MAR02669.001	Sediment	0.00351	0.00059	0.00157	0.00076	0.00605	0.00437	0.00231
B*	MAR02669.002	Sediment	0.00362	0.00057	0.00195	0.00073	0.00632	0.00475	0.00259
C	MAR02669.003	Sediment	0.00329	0.00063	0.00160	0.00063	0.00529	0.00391	0.00220
D	MAR02669.004	Sediment	0.00256	0.00049	0.00133	0.00055	0.00456	0.00343	0.00207
E*	MAR02669.005	Sediment	0.00325	0.00053	0.00149	0.00076	0.00566	0.00399	0.00230
Certified Reference Material Nist 1941b (% Recovery)			96	54	89	71	70	86	87
QC Blank			<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008

~ Indicates result is for an In-house Reference Material as no Certified Reference Materials are available.

*See report notes

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Issuing Laboratory SOCOTEC, Marine Department, Advanced Chemistry and Research, Etwall House, Bretby Business Park, Ashby Road, Burton-upon-Trent DE15 0YZ

Test Report ID MAR02669
Issue Version 1
Customer Reference Barry - MMO Analysis

		Units	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)
		Method No	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302
		Limit of Detection	0.00008	0.00008	0.00008	0.00008
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	PCB 47	PCB 49	PCB 52	PCB 66
A	MAR02669.001	Sediment	0.00098	0.00217	0.00249	0.00476
B*	MAR02669.002	Sediment	0.00103	0.00253	0.00273	0.00504
C	MAR02669.003	Sediment	0.00097	0.00217	0.00248	0.00461
D	MAR02669.004	Sediment	0.00078	0.00173	0.00202	0.00380
E*	MAR02669.005	Sediment	0.00096	0.00202	0.00228	0.00480
Certified Reference Material Nist 1941b (% Recovery)			112~	96	93	93
QC Blank			<0.00008	<0.00008	<0.00008	<0.00008

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Test Report ID MAR02669
Issue Version 1
Customer Reference Barry - MMO Analysis

		Units	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)
		Method No	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302
		Limit of Detection	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	MMO*	MMO*	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	PCB 101	PCB 105	PCB 110	PCB 118	PCB 128	PCB 138	PCB 141
F	MAR02669.006	Sediment	0.00229	0.00088	0.00316	0.00286	0.00057	0.00328	0.00054
Certified Reference Material Nist 1941b (% Recovery)			85	93	95	93	110	87	124~
QC Blank			<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008

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*See report notes

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Test Report ID MAR02669
 Issue Version 1
 Customer Reference Barry - MMO Analysis

		Units	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)
		Method No	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302
		Limit of Detection	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	PCB 149	PCB 151	PCB 153	PCB 156	PCB 158	PCB 170	PCB 18
F	MAR02669.006	Sediment	0.00267	0.00087	0.00402	0.00030	0.00049	0.00136	0.00257
Certified Reference Material Nist 1941b (% Recovery)			88	117~	91	64	92	97	75
QC Blank			<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008

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*See report notes

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Test Report ID MAR02669
Issue Version 1
Customer Reference Barry - MMO Analysis

		Units	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)
		Method No	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302
		Limit of Detection	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008	0.00008
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	PCB 180	PCB 183	PCB 187	PCB 194	PCB 28	PCB 31	PCB 44
F	MAR02669.006	Sediment	0.00333	0.00060	0.00136	0.00065	0.00548	0.00392	0.00228
Certified Reference Material Nist 1941b (% Recovery)			106	70	82	79	68	82	84
QC Blank			<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008	<0.00008

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*See report notes

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Test Report ID MAR02669
 Issue Version 1
 Customer Reference Barry - MMO Analysis

		Units	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)
		Method No	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302	ASC/SOP/302
		Limit of Detection	0.00008	0.00008	0.00008	0.00008
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	PCB 47	PCB 49	PCB 52	PCB 66
F	MAR02669.006	Sediment	0.00095	0.00209	0.00237	0.00437
Certified Reference Material Nist 1941b (% Recovery)			114~	95	90	95
QC Blank			<0.00008	<0.00008	<0.00008	<0.00008

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Test Report ID MAR02669
Issue Version 1
Customer Reference Barry - MMO Analysis

		Units	mg/Kg (Dry Weight)							
		Method No	ASC/SOP/302							
		Limit of Detection	0.0001							
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	AHCH	BHCH	GHCH	DIELDRLIN	HCB	PPTDE	PPDDE	PPDDT
A	MAR02669.001	Sediment	<0.0001	<0.0001	<0.0001	0.0014	0.0002	0.0010	0.0004	<0.0001
B*	MAR02669.002	Sediment	<0.0001	<0.0001	<0.0001	0.0013	0.0003	0.0010	0.0004	<0.0001
C	MAR02669.003	Sediment	<0.0001	<0.0001	<0.0001	0.0005	0.0004	0.0007	0.0005	<0.0001
D	MAR02669.004	Sediment	<0.0001	<0.0001	<0.0001	0.0001	0.0003	0.0007	0.0003	<0.0001
E*	MAR02669.005	Sediment	<0.0001	<0.0001	<0.0001	<0.0001	0.0003	0.0003	0.0001	0.0007
Certified Reference Material Nist 1941b (% Recovery)			108~	100~	112~	92~	106	47	71	54
QC Blank			<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001

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For full analyte name see method summaries.

*See report notes

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Test Report ID MAR02669
Issue Version 1
Customer Reference Barry - MMO Analysis

		Units	mg/Kg (Dry Weight)							
		Method No	ASC/SOP/302							
		Limit of Detection	0.0001							
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	MMO*	MMO*	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	AHCH	BHCH	GHCH	DIELDRIN	HCB	PPTDE	PPDE	PPDDT
F	MAR02669.006	Sediment	<0.0001	<0.0001	<0.0001	0.0001	0.0003	0.0009	0.0003	0.0001
Certified Reference Material Nist 1941b (% Recovery)			101~	72~	67~	95~	111	51	65	67~
QC Blank			<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001

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For full analyte name see method summaries.

*See report notes

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Test Report ID MAR02669
Issue Version 1
Customer Reference Barry - MMO Analysis

		Units	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)
		Method No	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308
		Limit of Detection	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	BDE17	BDE28	BDE47	BDE66	BDE85	BDE99	BDE100	BDE138
A	MAR02669.001	Sediment	0.00007	0.00005	0.00052	0.00009	<0.00005	0.00047	0.00007	<0.00005
B*	MAR02669.002	Sediment	0.00008	0.00007	0.00071	0.00012	<0.00005	0.00055	0.00011	<0.00005
C	MAR02669.003	Sediment	<0.00005	<0.00005	0.00045	0.00007	<0.00005	0.00031	0.00007	<0.00005
Certified Reference Material Quasimeme SED56 (% Recovery)			62~	87	78	68~	80~	59	104	72~
QC Blank			<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005

* See Report Notes

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Test Report ID MAR02669
Issue Version 1
Customer Reference Barry - MMO Analysis

		Units	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)
		Method No	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308
		Limit of Detection	0.00005	0.00005	0.00005	0.0001
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	BDE153	BDE154	BDE183	BDE209
A	MAR02669.001	Sediment	0.00010	0.00007	0.00008	0.0352
B*	MAR02669.002	Sediment	0.00012	0.00009	0.00009	0.0527
C	MAR02669.003	Sediment	0.00007	0.00008	0.00006	0.0287
Certified Reference Material Quasimeme SED56 (% Recovery)			137	64~	98	66
QC Blank			<0.00005	<0.00005	<0.00005	<0.0005*

* See Report Notes

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Test Report ID MAR02669
Issue Version 1
Customer Reference Barry - MMO Analysis

		Units	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)
		Method No	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308
		Limit of Detection	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005	0.00005
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	BDE17	BDE28	BDE47	BDE66	BDE85	BDE99	BDE100	BDE138
D	MAR02669.004	Sediment	<0.00005	<0.00005	0.00045	0.00007	<0.00005	0.00026	<0.00005	<0.00005
E*	MAR02669.005	Sediment	<0.00005	<0.00005	0.00069	0.00009	<0.00005	0.00033	0.00007	<0.00005
F	MAR02669.006	Sediment	<0.00005	<0.00005	0.00045	0.00008	<0.00005	0.00029	0.00008	<0.00005
Certified Reference Material Quasimeme SED56 (% Recovery)			99~	143	183	68~	105~	102~	100~	117~
QC Blank			<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005	<0.00005

* See Report Notes

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Test Report ID MAR02669
Issue Version 1
Customer Reference Barry - MMO Analysis

		Units	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)	mg/Kg (Dry Weight)
		Method No	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308	ASC/SOP/308
		Limit of Detection	0.00005	0.00005	0.00005	0.0001
		Accreditation	UKAS/MMO	UKAS/MMO	UKAS/MMO	UKAS/MMO
Client Reference:	SOCOTEC Ref:	Matrix	BDE153	BDE154	BDE183	BDE209
D	MAR02669.004	Sediment	0.00005	0.00011	<0.00005	0.0312
E*	MAR02669.005	Sediment	0.00008	0.00014	<0.00005	0.0328
F	MAR02669.006	Sediment	0.00012	0.00436	0.00006	0.0295
Certified Reference Material Quasimeme SED56 (% Recovery)			107~	106~	95	87
QC Blank			<0.00005	<0.00005	<0.00005	<0.002*

* See Report Notes

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Test Report ID MAR02669
Issue Version 1
Customer Reference Barry - MMO Analysis

REPORT NOTES

Method Code	Sample ID	The following information should be taken into consideration when using the data contained within this report
*SUB_01	MAR02669.001-006	Analysis was conducted by an approved subcontracted laboratory.
WSLM59*	MAR02669.001-006	Analysis was conducted by an internal SOCOTEC laboratory. UKAS accredited analysis by this laboratory is under UKAS number 1252.
ICPMSS*	MAR02669.001-006	Analysis was conducted by an internal SOCOTEC laboratory. UKAS accredited analysis by this laboratory is under UKAS number 1252.
ASC/SOP/302	MAR02669.001-005	The Primary process control data associated with this Test has not wholly met the requirements of the Laboratory Quality Management System QMS with one or more target analytes falling outside acceptable limits. The remaining data gives the Laboratory confidence that the test has performed satisfactorily and that the validity of the data may not have been significantly affected. However in line with our QMS policy we have removed accreditation, where applicable, from the affected analytes (PCB118) . These circumstances should be taken into consideration when utilising the data.
ASC/SOP/302	MAR02669.006	The Primary process control data associated with this Test has not wholly met the requirements of the Laboratory Quality Management System QMS with one or more target analytes falling outside acceptable limits. The remaining data gives the Laboratory confidence that the test has performed satisfactorily and that the validity of the data may not have been significantly affected. However in line with our QMS policy we have removed accreditation, where applicable, from the affected analytes (PCB128, PCB138, PPTDE, PPDE) . These circumstances should be taken into consideration when utilising the data.
ASC/SOP/303/304	MAR02669.001-006	Benzo[k]fluoranthene is known to coelute with Benzo[j]fluoranthene and these peaks can not be resolved. It is believed Benzo[j]fluoranthene is present in these samples therefore it is suggested that the Benzo[k]fluoranthene results should be taken as a Benzo[k]fluoranthene (inc. Benzo[j]fluoranthene). Benzo[j]fluoranthene is not UKAS accredited. This should be taken into consideration when utilising the data.
ASC/SOP/303/304	MAR02669.001-006	Chrysene is known to coelute with Triphenylene and these peaks can not be resolved in the PAHSED UKAS accredited method. Chrysene and Triphenylene are resolved for MMO but this is currently not UKAS accredited therefore Chrysene is reported without this accreditation.
ASC/SOP/308	MAR02669.001-003	The Primary process control data associated with this Test has not wholly met the requirements of the Laboratory Quality Management System QMS with one or more target analytes falling outside acceptable limits. The remaining data gives the Laboratory confidence that the test has performed satisfactorily and that the validity of the data may not have been significantly affected. However in line with our QMS policy we have removed accreditation, where applicable, from the affected analytes (BDE28, BDE47, BDE209) . These circumstances should be taken into consideration when utilising the data.
ASC/SOP/308	MAR02669.004-006	The Primary process control data associated with this Test has not wholly met the requirements of the Laboratory Quality Management System QMS with one or more target analytes falling outside acceptable limits. The remaining data gives the Laboratory confidence that the test has performed satisfactorily and that the validity of the data may not have been significantly affected. However in line with our QMS policy we have removed accreditation, where applicable, from the affected analytes (BDE47, BDE99, BDE100, BDE153) . These circumstances should be taken into consideration when utilising the data.
ASC/SOP/308	MAR02669.006	The Primary process control blank data associated with this Test has not wholly met the requirements of the Laboratory Quality Management System QMS with BDE209 falling above acceptable reporting limits. The remaining data gives the Laboratory confidence that the test has performed satisfactorily and that the validity of the data may not have been significantly affected. However in line with our QMS policy the report limit for this compound has been raised and samples have been blank subtracted.

DEVIATING SAMPLE STATEMENT

Deviation Code	Deviation Definition	Sample ID	Deviation Details. The following information should be taken into consideration when using the data contained within this report
D1	Holding Time Exceeded	N/A	N/A
D2	Sample Contaminated through Damaged Packaging	N/A	N/A
D3	Sample Contaminated through Sampling	N/A	N/A
D4	Inappropriate Container/Packaging	N/A	N/A
D5	Damaged in Transit	MAR02669.002, .005	Glass jar damaged in transit. Sample transferred to suitable container on arrival.
D6	Insufficient Quantity of Sample	N/A	N/A
D7	Inappropriate Headspace	N/A	N/A
D8	Retained at Incorrect Temperature	N/A	N/A
D9	Lack of Date & Time of Sampling	N/A	N/A
D10	Insufficient Sample Details	N/A	N/A
D11	Sample integrity compromised or not suitable for analysis	N/A	N/A

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Test Report ID MAR02669
Issue Version 1
Customer Reference Barry - MMO Analysis

Method	Sample and Fraction Size	Method Summary
Particle Size Analysis	Wet Sediment	Wet and dry sieving followed by laser diffraction analysis.
Total Organic Carbon (TOC)	Air dried	Carbonate removal and sulphurous acid/combustion at 1600°C/NDIR.
Metals	Air dried	Aqua-regia extraction followed by ICP analysis.
Organotins	Wet Sediment	Solvent extraction and derivatisation followed by GC-MS analysis.
Polyaromatic Hydrocarbons (PAH)	Wet Sediment	Solvent extraction and clean up followed by GC-MS analysis.
Total Hydrocarbon Content (THC)	Wet Sediment	Ultra-violet fluorescence spectroscopy
Polychlorinated Biphenyls (PCBs)	Air dried and sieved to <2mm	Solvent extraction and clean up followed by GC-MS-MS analysis.
Organochlorine Pesticides (OCPs)	Air dried and sieved to <2mm	Solvent extraction and clean up followed by GC-MS-MS analysis.
Brominated Flame Retardants (PBDEs)	Air dried and sieved to <2mm	Solvent extraction and clean up followed by GC-MS-MS analysis.

Analyte Definitions					
Analyte Abbreviation	Full Analyte name	Analyte Abbreviation	Full Analyte name	Analyte Abbreviation	Full Analyte name
ACENAPTH	Acenaphthene	C2N	C2-naphthalenes	THC	Total Hydrocarbon Content
ACENAPHY	Acenaphthylene	C3N	C3-naphthalenes	AHCH	alpha-Hexachlorocyclohexane
ANTHRACN	Anthracene	CHRYSENE	Chrysene	BHCH	beta-Hexachlorocyclohexane
BAA	Benzo[a]anthracene	DBENZAH	Dibenzo[ah]anthracene	GHCH	gamma-Hexachlorocyclohexane
BAP	Benzo[a]pyrene	FLUORANT	Fluoranthene	DIELDRIN	Dieldrin
BBF	Benzo[b]fluoranthene	FLUORENE	Fluorene	HCN	Hexachlorobenzene
BEP	Benzo[e]pyrene	INDPYR	Indeno[1,2,3-cd]pyrene	PPDDE	p,p'-Dichlorodiphenyldichloroethylene
BENZGHIP	Benzo[ghi]perylene	NAPTH	Naphthalene	PPDDT	p,p'-Dichlorodiphenyltrichloroethane
BKF	Benzo[k]fluoranthene	PERYLENE	Perylene	PPTDE	p,p'-Dichlorodiphenyldichloroethane
C1N	C1-naphthalenes	PHENANT	Phenanthrene		
C1PHEN	C1-phenanthrene	PYRENE	Pyrene		

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