



Chemical Surveillance Branch  
Agri-Food and Biosciences Institute  
(AFBI)  
Stoney Road  
Belfast BT4 3SD

To: FSANI  
10A-C Clarendon Road  
Belfast

## Official Control Services for Shellfish Chemical Contaminants 2024

Results included overleaf.

Abnormalities or departures from standard conditions: None.

Remarks: None.

Sample condition: Acceptable.

Method used:	PAHs	SOP 147
	Heavy Metals	SOP 163

Date of issue of report: 23/05/2024



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*Table 1: Sample information.*

Lab Number	Site name/Production Area	Site Identification Ref (SIR)	Species collected	Sample Date
202400758	Middlebank	B1 AFFNI 55	Mussels	12/02/2024
202400782	Paddy's Point	S7 AFFNI 76	Oysters	13/02/2024
202400920	Shingle Bay	L3 AFFNI 88	Oysters	20/02/2024
202401368	Killough	K1 AFFNI 18	Oysters	05/03/2024
202401642	Ballyedmond	C7 AFFNI 73	Oysters	12/03/2024
202401643	Fair Green	C11 AFFNI 84	Oysters	12/03/2024
202401644	Narrow Water	NW - Wild Fishery	Mussels	12/03/2024

*Three individual samples per site were collected and combined to make a composite sample for all analyses.*

Table 2: PAH results in µg/kg on a fresh (wet) weight basis

Lab Number	EFSA 4	Naphthalene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	7H-Benzo (c) Fluorene	Benzo (a) Anthracene	Cyclopenta (c,d) Pyrene	Chrysene	5 Methyl Chrysene	Benzo (b) Fluoranthene	Benzo (k) Fluoranthene	Benzo (j) Fluoranthene	Benzo (a) Pyrene	Indeno (123,cd) Pyrene	Dibenzo (a,h) Anthracene	Benzo (ghi) Perylene	Dibenzo (a,l) Pyrene	Dibenzo (a,e) Pyrene	Dibenzo (a,i) Pyrene	Dibenzo (a,h) Pyrene	
202400758	13.2	<0.50	4.7	1.6	6.5	6.6	<0.50	2.5	<0.50	4.6	<0.50	4.1	2.0	1.7	2.0	1.8	<0.50	2.5	<0.50	<0.50	<0.50	<0.50	<0.50
202400782	22.8	<0.50	8.2	1.5	14.5	10.0	<0.50	3.4	<0.50	9.7	<0.50	7.6	4.2	2.2	2.1	2.1	<0.50	1.9	<0.50	<0.50	<0.50	<0.50	<0.50
202400920	25.1	<0.50	10.8	2.2	19.4	13.8	<0.50	3.1	<0.50	12.4	<0.50	7.9	3.2	2.1	1.6	1.3	<0.50	1.5	<0.50	<0.50	<0.50	<0.50	<0.50
202401368	20.2	<0.50	6.2	1.9	12.5	8.3	<0.50	2.9	<0.50	8.6	<0.50	7.2	2.7	2.1	1.6	1.4	<0.50	1.5	<0.50	<0.50	<0.50	<0.50	<0.50
202401642	33.8	0.72	9.7	1.8	21.9	15.0	<0.50	5.3	<0.50	14.6	<0.50	11.2	5.2	2.9	2.6	2.0	0.61	1.9	<0.50	<0.50	<0.50	<0.50	<0.50

Table 2 continued: PAH results in  $\mu\text{g}/\text{kg}$  on a fresh (wet) weight basis

Lab number	EFSA 4	Naphthalene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	7H-Benzo (c) Fluorene	Benzo (a) Anthracene	Cyclopenta (c,d) Pyrene	Chrysene	5 Methyl Chrysene	Benzo (b) Fluoranthene	Benzo (k) Fluoranthene	Benzo (j) Fluoranthene	Benzo (a) Pyrene	Indeno (123,cd) Pyrene	Dibenzo (a,h) Anthracene	Benzo (ghi) Perylene	Dibenzo (a,l) Pyrene	Dibenzo (a,e) Pyrene	Dibenzo (a,i) Pyrene	Dibenzo (a,h) Pyrene
202401643	12.9	<0.50	3.1	1.7	5.7	3.8	<0.50	2.2	<0.50	4.5	<0.50	4.0	2.1	1.6	2.2	2.1	0.56	1.6	<0.50	<0.50	<0.50	<0.50
202401644	29.8	0.57	5.9	1.7	19.2	17.8	<0.50	7.4	<0.50	9.8	<0.50	9.1	4.4	3.8	3.5	2.9	0.57	3.2	<0.50	<0.50	<0.50	<0.50
LOD ( $\mu\text{g}/\text{kg}$ )		0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
LOQ ( $\mu\text{g}/\text{kg}$ )		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50
HORRAT <sub>r</sub>		1.34	0.48	1.00	0.32	0.32	0.85	0.56	0.57	0.26	0.37	0.30	0.40	0.36	1.09	1.19	0.38	0.55	0.67	1.08	1.27	0.97
Uncertainty		0.20	0.17	0.19	0.17	0.17	0.38	0.14	0.26	0.20	0.17	0.14	0.18	0.16	0.19	0.29	0.17	0.18	0.30	0.49	0.58	0.44



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*Table 3: Metal results for Lead, Cadmium and Mercury, expressed as mg/kg on a fresh (wet) weight basis.*

Lab Number	Lead	Cadmium	Mercury
202400758	0.65	<0.20	<0.10
202400782	<0.30	0.24	<0.10
202400920	<0.30	0.21	<0.10
202401368	<0.30	<0.20	<0.10
202401642	<0.30	0.28	<0.10
202401643	<0.30	0.40	<0.10
202401644	0.54	<0.20	<0.10
<b>LOD (mg/kg)</b>	<b>0.15</b>	<b>0.10</b>	<b>0.05</b>
<b>LOQ (mg/kg)</b>	<b>0.30</b>	<b>0.20</b>	<b>0.10</b>
<b>HORRATr</b>	<b>0.23</b>	<b>0.21</b>	<b>0.17</b>
<b>Uncertainty</b>	<b>0.07</b>	<b>0.08</b>	<b>0.09</b>