

# Pre-deposit Sampling Results Form

Version 3 - January 2024

This form should be used to submit the results from your pre-deposit sampling plan.  
Full information must be provided in all relevant sheets of this workbook. The blue cells in each worksheet indicate where information can be entered.  
Where information cannot be provided, please contact the Marine Directorate - Licensing Operations Team (MD-LOT) using the contact details below.

Once you have completed this form, send it (including any reference number for the dredging and sea deposit marine licence application in the subject header of your email) to the following email address:  
[md.marinelicensing@gov.scot](mailto:md.marinelicensing@gov.scot)

If you have any questions in relation to this form contact MD-LOT:

Marine Directorate - Licensing Operations Team  
Marine Laboratory  
375 Victoria Road  
Aberdeen, AB11 9DB

01224 295579  
[md.marinelicensing@gov.scot](mailto:md.marinelicensing@gov.scot)

**Applicant Information**

Applicant:	OICHA
Description of dredging:	Maintenance - Stromness
Total amount to be dredged (wet tonnes)	7,200 ( 4000m3)

**Sample Details & Physical Properties**

**Explanatory Notes:**  
 An example of a 'Dredge area' is: 'Dock A, Harbour X'  
 Provide description of the dredge area and the latitude and longitude co-ordinates (WGS84) for each sample location. Co-ordinates taken from GPS equipment should be set to WGS84.  
 Note for sample depth that the seabed is 0 metres.  
**Gravel** is defined as >2mm, **Sand** is defined as >63um<2mm, **Silt** is defined as <63um).

**Sample information:**

Sample ID	Dredge area	Latitude				Longitude				Type of sample	Sample depth (m)	Total solids (%)	Gravel (%)	Sand (%)	Silt (%)	TOC (%)	Specific gravity	Asbestos													
MAR02705.00	SS01 (0.0 - 0.15)	5	8	°	5	7	'	4	7	0	N	0	0	3	'	1	7	.	4	6	0	W	Grab	0.15	58.4	0	55.2	44.8	0.92		No
MAR02705.00	SS02 (0.0 - 0.15)	5	8	°	5	7	'	4	4	0	N	0	0	3	'	1	7	.	3	8	0	W	Grab	0.15	56.8	13.59	49.24	37.17	0.46		No
MAR02705.00	SS03 (0.0 - 0.15)	5	8	°	5	7	'	4	1	0	N	0	0	3	'	1	7	.	4	9	0	W	Grab	0.15	63.7	0.78	62.77	36.44	0.73		No







**PR Details**

Total amount to be dredged (wet tonnes)

**Explanatory Notes:**

The values entered for each determinand should be an average wet weight concentration from all the samples representing the material to be disposed to sea. They should be entered in the units stated in the Unit of measurement column in the table below. Results above Action Level 1 will be highlighted in blue and above Action Level 2 in red.

**Average for the total dredge area:**

Sample ID	Unit of measurement	
Total Solids	%	59.6
Gravel	%	4.79
Sand	%	55.74
Silt	%	39.47
Arsenic (As)	mg/kg	10.5
Cadmium (Cd)		0.2
Chromium (Cr)		9
Copper (Cu)		13
Mercury (Hg)		0.09
Nickel (Ni)		8
Lead (Pb)		40.3
Zinc (Zn)		60
Dibutyltin (DBT)		<0.005
Tributyltin (TBT)		<0.005
Acenaphth		<5
Acenaphthylene		6.05
Anthracen		14.1
BAA	44.4	
BAP	55.2	
BBF	38.5	
BEP		
Benzghip	28.8	
BKF	44.6	
C1N		
C1PHEN		
C2N		
C3N		
Chrysene	48.6	
Debenzah	6.22	
Flurant	72.8	
Fluorene	5.42	
Indypr	28.6	
naph	7.12	
perylene		
phenant	32.6	
pyrene	84.3	
THC	62267	
PCB28	<0.08	
PCB52	<0.08	
PCB101	<0.08	
PCB118	0.08	
PCB138	<0.08	
PCB153	<0.08	
PCB18		
PCB105		
PCB110		
PCB128		
PCB141		
PCB149		
PCB151		
PCB156		
PCB158		
PCB170		
PCB180	<0.08	
PCB183		
PCB187		
PCB194		
PCB31		
PCB44		
PCB47		
PCB49		
PCB66		
ICES7	<0.56	
AHCH		
BHCH		
GHCH		
DIELDRIN		
HCB		
DDE		
DDT		
TDE		
BDE100		
BDE138		
BDE153		
BDE154		
BDE17		
BDE183		
BDE209		
BDE28		
BDE47		
BDE66		
BDE85		
BDE99		

**Comments:**

**Laboratory Details**

**Explanatory Notes:**  
Please complete a separate worksheet for each laboratory (e.g. complete 'Laboratory\_1' worksheet for 1 laboratory and complete 'Laboratory\_2' worksheet for a second laboratory). If there are more than 3 laboratories then please contact MD-LOT.

<b>Laboratory 1 Details:</b>	
Laboratory name:	SOCOTEC
Year:	2025

<b>LabRefMat</b>	<b>Q1</b>	Does the laboratory carrying out the analyses undertake the analysis of blank samples and laboratory reference materials with each batch of samples of waste and other material dumped in the maritime area that is analysed by that laboratory?	Yes
<b>CompAnal</b>	<b>Q2</b>	Does the laboratory carrying out the analyses undertake periodic comparative analysis of laboratory reference materials and certified reference materials?	Yes
<b>QAQC</b>	<b>Q3</b>	Does the laboratory carrying out the analyses undertake the compilation of quality control charts based upon the data resulting from the analyses of the laboratory reference materials and certified reference materials, and the use of those quality control charts to monitor analytical performance in relation to all samples of dumped wastes or other materials?	Yes
<b>InterlabCaleb</b>	<b>Q4</b>	Does the laboratory carrying out the analyses undertake periodic participation in interlaboratory comparison exercises, including, where possible, international comparison exercises?	Yes
<b>InternatCaleb</b>	<b>Q5</b>	Does the laboratory carrying out the analyses undertake periodic participation in national and, where possible, international laboratory proficiency schemes?	Yes
<b>SpikedSamples</b>	<b>Q6</b>	If the answer to questions 4 or 5 is 'Yes' then does the laboratory analyse samples of substances which are provided by the organisers of the scheme?	Yes
<b>BlindSamples</b>	<b>Q7</b>	If the answer to questions 4 or 5 is 'Yes' then does the laboratory confirm that the composition of those samples is not disclosed in advance?	Yes
<b>Ranking</b>	<b>Q8</b>	If the answer to questions 4 or 5 is 'Yes' then does the laboratory confirm that the results of the scheme for each participating laboratory are made available to all participating laboratories?	Yes
<b>FracAnal</b>	<b>Q9</b>	Enter the size fraction that is analysed i.e. Whole or less than 63µm etc.	<63µm(metals)
<b>GranMeth</b>	<b>Q10</b>	PSA method	Distribution by wet & dry sieving and laser detracton
<b>OCMeth</b>	<b>Q11</b>	Organic Carbon method	Carbonate removal and sulfurous acid/combustion at 1600°C/NDIR.
<b>MetExtrType</b>	<b>Q12</b>	Method of extraction used for metal analysis	Aquaregia
<b>MethOfDetMetals</b>	<b>Q13</b>	Method of detection used for metal analysis	ICP-MS
<b>PAHExtrType</b>	<b>Q14</b>	Method of extraction used for poly aromatic hydrocarbon analysis	Methanol/DCM solvent extraction with silica clean up and copper clean up stages
<b>MethOfDetPAH</b>	<b>Q15</b>	Method of detection used for poly aromatic hydrocarbons analysis	GCMS
<b>OHExtrType</b>	<b>Q16</b>	Method of extraction used for organohalogens inc PCBs, pesticides, flame retardants etc analysis	Ultrasonic acetone/hexane solvent extraction
<b>MethOfDetOH</b>	<b>Q17</b>	Method of detection used for organohalogens inc PCBs, pesticides, flame retardants etc analysis	GCMSMS
<b>OTExtrType</b>	<b>Q18</b>	Method of extraction used for organotin analysis	Derivatisation and solvent extraction
<b>MethOfDetOT</b>	<b>Q19</b>	Method of detection used for organotin analysis	GCMS

		LOD/LOQ	Precision (%)	Recovery (%)
mg/kg	Hg	0.01	4.2	96
	As	0.5	2.7	98
	Cd	0.04	3.6	98
	Cu	0.5	2.9	100
	Pb	0.5	3	97
	Zn	2	2.6	98
	Cr	0.5	3.1	104
	Ni	0.5	3.6	106
	TBT	0.001	12.62	108
	DBT	0.001	12.62	103
	PCB28	0.08	12.56	68
	PCB31			
	PCB44			
	PCB47			
	PCB49			
PCB52	0.08	6.999	90	
PCB66				
PCB101	0.08	8.43	87	
PCB105				
PCB110				
PCB118	0.08	14.61	98	
PCB128				
PCB138-163	0.08	12.93	97	
PCB141				
PCB149				
PCB151				
PCB153	0.08	7.41	90	
PCB156				
PCB158				
PCB170				
PCB180	0.08	9.85	84	
PCB183				
PCB187				
PCB194				
DDE				
DDT				
DDD				
Dieldrin				
Lindane				
HCB				
BDE17				
BDE28				
BDE47				
BDE66				
BDE85				
BDE99				
BDE100				
BDE138				
BDE153				
BDE154				
BDE183				
BDE209				
ACENAPTH	1	6.88	64	
ACENAPHY	1	7.74	101	
ANTHRACN	1	4.95	67	
BAA	1	9.8	98	
BAP	1	9.07	85	
BBF	1	8.44	92	
BENZGHIP	1	13.46	80	
BEP				
BKF	1	8.9	79	
C1N				
C1PHEN				
C2N				
C3N				
CHRYSENE	1	7.87	92	
DBENZAH	1	19.23	118	
FLUORENE	1	5.25	48	
FLUORANT	1	4.38	81	
INDPYR	1	17.1	81	
NAPTH	1	3.02	61	
PERYLENE				
PHENANT	1	5.41	79	
PYRENE	1	4.29	71	
THC	100	N/A	78	





Grab  
Core

Yes  
No