

Pre-disposal Sampling Results Form

Version 2 - June 2017

This form should be used to submit the results from your pre-disposal 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, or where there are more than 30 samples required, please contact the Marine Scotland - Licensing Operations Team (MS-LOT) using the contact details below.

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

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

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

01224 295579
ms.marinelicensing@gov.scot

Applicant Information

Applicant:
Description of dredging:
Total amount to be dredged (wet tonnes)

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								
7342	KESS111	-	5	°	2	9	.	1	.	6	'N	5	5	°	4	8	.	23	.	44	'W	Core	0	76.7	9.68	26.58	63.65	0.37	1.3	No
7343	KESS111	-	5	°	2	9	.	1	.	6	'N	5	5	°	4	8	.	23	.	44	'W	Core	0.5	73.3	0	0.5	99.53	0.39	1.2	No
7344	KESS111	-	5	°	2	9	.	1	.	6	'N	5	5	°	4	8	.	23	.	44	'W	Core	1	72.7	0	0.94	99.1	0.37	1.3	No
7330	KESS112	-	5	°	2	9	.	4	.	5	'N	5	5	°	4	8	.	22	.	87	'W	Core	0	69.3	47.56	21.97	30.55	0.94	1.4	No
7331	KESS112	-	5	°	2	9	.	4	.	5	'N	5	5	°	4	8	.	22	.	87	'W	Core	0.5	68.8	0	40	60.04	0.96	1.4	No
7303	KESS113	-	5	°	2	9	.	2	.	77	'N	5	5	°	4	8	.	23	.	40	'W	Core	0	52.9	0	54.82	45.22	2.56	1.1	No
7304	KESS113	-	5	°	2	9	.	2	.	77	'N	5	5	°	4	8	.	23	.	40	'W	Core	0.5	52	0	35.13	64.87	2.52	1.2	No
7305	KESS113	-	5	°	2	9	.	2	.	77	'N	5	5	°	4	8	.	23	.	40	'W	Core	1	57.7	0	42.19	57.83	2.13	1.2	No
7293	KESS114	-	5	°	2	9	.	4	.	44	'N	5	5	°	4	8	.	24	.	51	'W	Core	0	69.5	34.65	24.53	40.82	1.22	1.3	No
7294	KESS114	-	5	°	2	9	.	4	.	44	'N	5	5	°	4	8	.	24	.	51	'W	Core	0.5	66.8	14.35	47.74	37.95	1.61	1.4	No
7295	KESS114	-	5	°	2	9	.	4	.	44	'N	5	5	°	4	8	.	24	.	51	'W	Core	1	76.3	0	69.67	30.33	<0.30	1.4	No
7321	KESS115	-	5	°	2	9	.	1	.	74	'N	5	5	°	4	8	.	25	.	30	'W	Core	0	65.1	25.06	21.14	53.94	1.06	1.3	No
7322	KESS115	-	5	°	2	9	.	1	.	74	'N	5	5	°	4	8	.	25	.	30	'W	Core	0.5	75	12.21	27.87	60.1	0.31	1.4	No
7323	KESS115	-	5	°	2	9	.	1	.	74	'N	5	5	°	4	8	.	25	.	30	'W	Core	1	79.5	0	34.45	65.57	0.31	1.5	No
7315	KESS116	-	5	°	2	9	.	1	.	25	'N	5	5	°	4	8	.	24	.	34	'W	Core	0	77.9	68.26	12.3	19.45	0.69	1.4	No
7316	KESS116	-	5	°	2	9	.	1	.	25	'N	5	5	°	4	8	.	24	.	34	'W	Core	0.5	72.5	0	0	100	0.38	1.3	No
		°	.	.	N	°	.	N	°	.	N	°	.	N	°	.	N	°	.	N	°									
		°	.	.	N	°	.	N	°	.	N	°	.	N	°	.	N	°	.	N	°									
		°	.	.	N	°	.	N	°	.	N	°	.	N	°	.	N	°	.	N	°									
		°	.	.	N	°	.	N	°	.	N	°	.	N	°	.	N	°	.	N	°									
		°	.	.	N	°	.	N	°	.	N	°	.	N	°	.	N	°	.	N	°									
		°	.	.	N	°	.	N	°	.	N	°	.	N	°	.	N	°	.	N	°									
		°	.	.	N	°	.	N	°	.	N	°	.	N	°	.	N	°	.	N	°									
		°	.	.	N	°	.	N	°	.	N	°	.	N	°	.	N	°	.	N	°									
		°	.	.	N	°	.	N	°	.	N	°	.	N	°	.	N	°	.	N	°									
		°	.	.	N	°	.	N	°	.	N	°	.	N	°	.	N	°	.	N	°									
		°	.	.	N	°	.	N	°	.	N	°	.	N	°	.	N	°	.	N	°									
		°	.	.	N	°	.	N	°	.	N	°	.	N	°	.	N	°	.	N	°									
		°	.	.	N	°	.	N	°	.	N	°	.	N	°	.	N	°	.	N	°									
		°	.	.	N	°	.	N	°	.	N	°	.	N	°	.	N	°	.	N	°									
		°	.	.	N	°	.	N	°	.	N	°	.	N	°	.	N	°	.	N	°									
		°	.	.	N	°	.	N	°	.	N	°	.	N	°	.	N	°	.	N	°									
		°	.	.	N	°	.	N	°	.	N	°	.	N	°	.	N	°	.	N	°									
		°	.	.	N	°	.	N	°	.	N	°	.	N	°	.	N	°	.	N	°									
		°	.	.	N	°	.	N	°	.	N	°	.	N	°	.	N	°	.	N	°									
		°	.	.	N	°	.	N	°	.	N	°	.	N	°	.	N	°	.	N	°									
		°	.	.	N	°	.	N	°	.	N	°	.	N	°	.	N	°	.	N	°									
		°	.	.	N	°	.	N	°	.	N	°	.	N	°	.	N	°	.	N	°									
		°	.	.	N	°	.	N	°	.	N	°	.	N	°	.	N	°	.	N	°									
		°	.	.	N	°	.	N	°	.	N	°																		

Trace Metals & Organotins

Explanatory Notes:

Results above Action Level 1 will be highlighted in blue and above Action Level 2 in red.

Sample information:

Polyaromatic Hydrocarbons (PAH)

Explanatory Notes:
Results above Action Level 1 will be highlighted in blue

Definitions:	
ACENAPTH	Acenaphthene
ACENAPHY	Acenaphthylene
ANTHRACN	Anthracene
BAA	Benz(a)anthracene
BAP	Benzo(a)pyrene
BBF	Benzo(b)fluoranthene
BEP	Benzo(e)pyrene
BENZGHIP	Benzo(ghi)perylene
BKF	Benzo(K)fluoranthene
C1N	C1-naphthalenes
C1PHEN	C1-phenanthrene
C2N	C2-naphthalenes
C3N	C3-naphthalenes
CHRYSENE	Chrysene
DBENZAH	Diben(ah)anthracene
FLUORANT	Fluoranthene
FLUORENE	Fluorene
INDPYR	Indeno(1,2,3-cd)pyrene
NAPTH	Naphthalene
PERYLENE	Perylene
PHENANT	Phenanthrene
PYRENE	Pyrene
THC	Total Hydrocarbon Content

Sample information:

Organohalogens

Explanatory Notes:
Results above Action Level 1 will be highlighted in blue and above Action Level 2 in red.

Results above Action Level 1 will be highlighted in blue and above ICES7 is the sum of PCB 28,52,101,138,153,180 and 118.

PR Details

Total amount to be dredged (wet tonnes) 75000

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	%
Gravel	%
Sand	%
Silt	%
Arsenic (As)	16.60625
Cadmium (Cd)	0.1
Chromium (Cr)	85.76875
Copper (Cu)	22.0125
Mercury (Hg)	0.07
Nickel (Ni)	37.05
Lead (Pb)	19.20625
Zinc (Zn)	80.99375
Dibutyltin (DBT)	0.00545
Tributyltin (TBT)	0.00815
Acenaphth	3.24
Acenaphthylene	1.41
Anthracn	4.22
BAA	12.08
BAP	14.01
BBF	21.53
BEP	
Benzghip	14.13
BKF	7.78
C1N	
C1PHEN	
C2N	
C3N	
Chrysene	11.40
Debenzah	3.69
Flurant	24.79
Fluorene	5.09
Indypr	9.18
naph	5.15
perylene	
phenant	25.58
pyrene	23.57
THC	40436.54
PCB28	0.08
PCB52	0.0875
PCB101	0.085833
PCB118	0.08
PCB138	0.08
PCB153	0.08
PCB18	0.08
PCB105	0.08
PCB110	0.08
PCB128	0.08
PCB141	0.08
PCB149	0.08
PCB151	0.08
PCB156	0.08
PCB158	0.08
PCB170	0.08
PCB180	0.08
PCB183	0.08
PCB187	0.08
PCB194	0.08
PCB31	0.08
PCB44	0.083125
PCB47	0.08
PCB49	0.08625
PCB66	0.08
ICES7	0.08
AHCH	0.45
BHCH	<2000
GHCH	0.38
DIELDRIN	0.21
HCB	0.84
DDE	0.75
DDT	0.31
TDE	0.58
BDE100	0.01
BDE138	0.01
BDE153	0.01
BDE154	0.01
BDE17	0.01
BDE183	0.01
BDE209	0.03
BDE28	0.01
BDE47	0.01
BDE66	0.01
BDE85	0.01
BDE99	0.01

Comments: Where values are <LOD, they are used as =LOD in average calculations. The exceedances of BHCH and Zn of >AL2 are anomalous

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 MS-LOT.

Laboratory 1 Details:

Laboratory name:	RPS Environmental Management Ltd, 13 St Martins Way, Bedford, Bedfordshire, MK42 0LF (UKAS)
Year:	2023

LabRefMat	Q1	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
CompAnal	Q2	Does the laboratory carrying out the analyses undertake periodic comparative analysis of laboratory reference materials and certified reference materials?	Yes
QAQC	Q3	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
InterlabCaleb	Q4	Does the laboratory carrying out the analyses undertake periodic participation in interlaboratory comparison exercises, including, where possible, international comparison exercises?	Yes
InternatCaleb	Q5	Does the laboratory carrying out the analyses undertake periodic participation in national and, where possible, international laboratory proficiency schemes?	Yes
SpikedSamples	Q6	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
BlindSamples	Q7	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
Ranking	Q8	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
FracAnal	Q9	Enter the size fraction that is analysed i.e. Whole or less than 63µm etc.	.001953 - 32mm
GranMeth	Q10	PSA method	Wet and dry sieving followed by laser diffraction analysis.
OCMeth	Q11	Organic Carbon method	Combustion and infrared analysis following carbonate removal with hydrochloric acid.
MetExtrType	Q12	Method of extraction used for metal analysis	N/A
MethOfDetMetals	Q13	Method of detection used for metal analysis	N/A
PAHExtrType	Q14	Method of extraction used for poly aromatic hydrocarbon analysis	GCMS analysis following extraction of the wet sediment with DCM:acetone by ASE 350 extraction. Extract cleaned-up with silica and activated copper.
MethOfDetPAH	Q15	Method of detection used for poly aromatic hydrocarbons analysis	GCMS analysis following extraction of the wet sediment with DCM:acetone by ASE 350 extraction. Extract cleaned-up with silica and activated copper.
OHExtrType	Q16	Method of extraction used for organohalogens inc PCBs, pesticides, flame retardants etc analysis	GCMS analysis following extraction of the wet sediment with DCM:acetone by ASE 350 extraction. Extract cleaned-up with silica and activated copper.
MethOfDetOH	Q17	Method of detection used for organohalogens inc PCBs, pesticides, flame retardants etc	GCMS analysis following extraction of the wet sediment with DCM:acetone by ASE 350 extraction. Extract cleaned-up with silica and activated copper.
OTExtrType	Q18	Method of extraction used for organotin analysis	N/A
MethOfDetOT	Q19	Method of detection used for organotin analysis	N/A

LOD/LOQ Precision (%) Recovery (%)		
Hg		
As		
Cd		
Cu		
Pb		
Zn		
Cr		
Ni		
TBT		
DBT		
mg/kg		
PCB28	0.08	113.6%
PCB31	0.08	n/a
PCB44	0.08	n/a
PCB47	0.08	n/a
PCB49	0.08	n/a
PCB52	0.08	120.3%
PCB66	0.08	n/a
PCB101	0.08	128.0%
PCB105	0.08	120.9%
PCB110	0.08	n/a
PCB118	0.08	124.5%
PCB128	0.08	115.7%
PCB138+163	0.08	123.4%
PCB141	0.08	n/a
PCB149	0.08	106.2%
PCB151	0.08	n/a
PCB153	0.08	122.3%
PCB156	0.08	151.7%
PCB158	0.08	n/a
PCB170	0.08	124.5%
PCB180	0.08	145.9%
PCB183	0.08	n/a
PCB187	0.08	n/a
PCB194	0.08	n/a
DDE	0.75	n/a
DDT	0.31	n/a
DDD	0.58	n/a
Dieldrin	0.21	n/a
Lindane	0.38	n/a
HCB	0.84	n/a
BDE17	0.01	n/a
BDE28	0.01	n/a
BDE47	0.01	n/a
BDE66	0.01	n/a
BDE85	0.01	n/a
BDE99	0.01	n/a
BDE100	0.01	n/a
BDE138	0.01	n/a
BDE153	0.01	n/a
BDE154	0.01	n/a
BDE183	0.01	n/a
BDE209	0.01	n/a
ACENAPHTH	1.7	97.2%
ACENAPHY	2	77.2%
ANTHRACN	2.5	88.7%
BAA	1.6	80.7%
BAP	0.9	108.9%
BBF	1.6	116.1%
BENZGHIP	1.4	108.4%
BEP		
BKF	2	93.1%
C1N		
C1PHEN		
C2N		
C3N		
CHRYSENE	1.7	97.1%
DBENZAH	1.6	n/a
FLUORENE	1.7	65.7%
FLUORANT	2.5	97.2%
INDPYR		
NAPTH	2.2	78.6%
PERYLENE	3	n/a
PHENANT	4	79.7%
PYRENE	2.8	90.6%
THC	1000	n/a

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 MS-LOT.

Laboratory 2 Details:

Laboratory name:	RPS Manchester (metals only), UKAS Accreditation Laboratory No. 0605
Year:	2023

LabRefMat	Q1	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
CompAnal	Q2	Does the laboratory carrying out the analyses undertake periodic comparative analysis of laboratory reference materials and certified reference materials?	Yes
QAQC	Q3	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
InterlabCaleb	Q4	Does the laboratory carrying out the analyses undertake periodic participation in interlaboratory comparison exercises, including, where possible, international comparison exercises?	Yes
InternatCaleb	Q5	Does the laboratory carrying out the analyses undertake periodic participation in national and, where possible, international laboratory proficiency schemes?	Yes
SpikedSamples	Q6	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
BlindSamples	Q7	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
Ranking	Q8	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
FracAnal	Q9	Enter the size fraction that is analysed i.e. Whole or less than 63µm etc.	0.001953 - 32mm
GranMeth	Q10	PSA method	N/A
OCMeth	Q11	Organic Carbon method	N/A
MetExtrType	Q12	Method of extraction used for metal analysis	ICP-MS analysis following microwave assisted digestion in hydrofluoric acid of the dried (<30°C) and ground sediment.
MethOfDetMetals	Q13	Method of detection used for metal analysis	ICP-MS analysis following microwave assisted digestion in hydrofluoric acid of the dried (<30°C) and ground sediment.
PAHExtrType	Q14	Method of extraction used for poly aromatic hydrocarbon analysis	N/A
MethOfDetPAH	Q15	Method of detection used for poly aromatic hydrocarbons analysis	N/A
OHExtrType	Q16	Method of extraction used for organohalogens inc PCBs, pesticides, flame retardants etc analysis	N/A
MethOfDetOH	Q17	Method of detection used for organohalogens inc PCBs, pesticides, flame retardants etc analysis	N/A
OTExtrType	Q18	Method of extraction used for organotin analysis	GCMS analysis following the extraction of the wet sediment and subsequent derivatisation.
MethOfDetOT	Q19	Method of detection used for organotin analysis	GCMS analysis following the extraction of the wet sediment and subsequent derivatisation.

	LOD/LOQ	Precision (%)	Recovery (%)
Hg	0.01	89.4%	
As	0.5	94.9%	
Cd	0.1	96.0%	
Cu	0.5	85.0%	
Pb	0.5	88.9%	
Zn	2	89.4%	
Cr	0.5	85.2%	
Ni	0.5	88.9%	
TBT	0.005	108.9%	
DBT	0.002	86.3%	
PCB28			
PCB31			
PCB44			
PCB47			
PCB49			
PCB52			
PCB66			
PCB101			
PCB105			
PCB110			
PCB118			
PCB128			
PCB138+163			
PCB141			
PCB149			
PCB151			
PCB153			
PCB156			
PCB158			
PCB170			
PCB180			
PCB183			
PCB187			
PCB194			
DDE			
DDT			
DDD			
Dieldrin			
Lindane			
HCB			
BDE17			
BDE28			
BDE47			
BDE66			
BDE85			
BDE99			
BDE100			
BDE138			
BDE153			
BDE154			
BDE183			
BDE209			
ACENAPTH			
ACENAPHY			
ANTHRACN			
BAA			
BAP			
BBF			
BENZGHIP			
BEP			
BKF			
C1N			
C1PHEN			
C2N			
C3N			
CHRYSENE			
DBENZAH			
FLUORENE			
FLUORANT			
INDPYR			
NAPTH			
PERYLENE			
PHENANT			
PYRENE			
THC			

Laboratory Details

Explanatory Notes:

Please complete a separate worksheet for each laboratory (e.g. complete 'Laboartory_1' worksheet for 1 laboratory and complete 'Laboartory_2' worksheet for a second laboratory). If there are more than 3 laboratories then please contact MS-LOT.

Laboratory 3 Details:

Laboratory name: N/A
Year:

LabRefMat	Q1	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?	
CompAnal	Q2	Does the laboratory carrying out the analyses undertake periodic comparative analysis of laboratory reference materials and certified reference materials?	
QAQC	Q3	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?	
InterlabCaleb	Q4	Does the laboratory carrying out the analyses undertake periodic participation in interlaboratory comparison exercises, including, where possible, international comparison exercises?	
InternatCaleb	Q5	Does the laboratory carrying out the analyses undertake periodic participation in national and, where possible, international laboratory proficiency schemes?	
SpikedSamples	Q6	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?	
BlindSamples	Q7	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?	
Ranking	Q8	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?	
FracAnal	Q9	Enter the size fraction that is analysed i.e. Whole or less than 63µm etc.	
GranMeth	Q10	PSA method	
OCMeth	Q11	Organic Carbon method	
MetExtrType	Q12	Method of extraction used for metal analysis	
MethOfDetMetals	Q13	Method of detection used for metal analysis	
PAHExtrType	Q14	Method of extraction used for poly aromatic hydrocarbon analysis	
MethOfDetPAH	Q15	Method of detection used for poly aromatic hydrocarbons analysis	
OHExtrType	Q16	Method of extraction used for organohalogens inc PCBs, pesticides, flame retardants etc analysis	
MethOfDetOH	Q17	Method of detection used for organohalogens inc PCBs, pesticides, flame retardants etc analysis	
OTExtrType	Q18	Method of extraction used for organotin analysis	
MethOfDetOT	Q19	Method of detection used for organotin analysis	

		LOD/LOQ	Precision (%)	Recovery (%)
mg/kg	Hg			
	As			
	Cd			
	Cu			
	Pb			
	Zn			
	Cr			
	Ni			
	TBT			
	DBT			
PCB28				
PCB31				
PCB44				
PCB47				
PCB49				
PCB52				
PCB66				
PCB101				
PCB105				
PCB110				
PCB118				
PCB128				
PCB138+163				
PCB141				
PCB149				
PCB151				
PCB153				
PCB156				
PCB158				
PCB170				
PCB180				
PCB183				
PCB187				
PCB194				
DDE				
DDT				
DDD				
Dieldrin				
Lindane				
HCB				
BDE17				
BDE28				
BDE47				
BDE66				
BDE85				
BDE99				
BDE100				
BDE138				
BDE153				
BDE154				
BDE183				
BDE209				
ACENAPTH				
ACENAPHY				
ANTHRACN				
BAA				
BAP				
BBF				
BENZGHIP				
BEP				
BKF				
C1N				
C1PHEN				
C2N				
C3N				
CHRYSENE				
DBENZAH				
FLUORENE				
FLUORANT				
INDPYR				
NAPTH				
PERYLENE				
PHENANT				
PYRENE				
THC				

Grab Yes
Core No

Yes
No

Note

Note: Used as a working sheet

A horizontal bar chart illustrating the distribution of five data series across five categories. Each category is defined by a black horizontal line. The length of each orange bar represents the magnitude of the data series for that category.

Category	Series 1	Series 2	Series 3	Series 4	Series 5
1	Short	Medium	Very Short		
2		Very Long			
3		Medium			
4		Very Long			
5				Very Short	

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A horizontal bar chart with four segments. The first segment is white, the second is light blue, the third is medium blue, and the fourth is dark blue. The total length of the bar is approximately 85% of the available width.