

Sample Round	Batch ID	Sample ID	FTIR Lab	Site type
River Profiling T2 Sediment	T2	DEF-T2-S-01-C	UKCEH	Above bridge
River Profiling T2 Sediment	T2	DEF-T2-S-02-C	UKCEH	Above bridge
River Profiling T2 Sediment	T2	DEF-T2-S-03-C	UKCEH	Above bridge
River Profiling T2 Sediment	T2	DEF-T2-S-04-C	UKCEH	Below bridge
River Profiling T2 Sediment	T2	DEF-T2-S-05-C	UKCEH	Below bridge
River Profiling T2 Sediment	T2	DEF-T2-S-06-C	UKCEH	Below bridge
River Profiling T2 Sediment	T2	DEF-T2-S-07-C	UKCEH	Below bridge
River Profiling T2 Sediment	T2	DEF-T2-S-08-C	UKCEH	Below bridge
River Profiling T2 Sediment	T2	DEF-T2-S-09-C	UKCEH	Below bridge
Campaign 1 Sediment	SB02	DEFRA-I1-S-01-A-C	UKCEH	Urban
Campaign 1 Sediment	SB02	DEFRA-I1-S-01-B-C	UKCEH	Urban
Campaign 1 Sediment	SB02	DEFRA-I1-S-01-C-C	UKCEH	Urban
Campaign 1 Sediment	SB02	DEFRA-I1-S-02-A-C	UKCEH	Urban
Campaign 1 Sediment	SB02	DEFRA-I1-S-03-A-C	UKCEH	Urban
Campaign 1 Sediment	SB01	DEFRA-I2-S-01-A-C	UKCEH	Intermediate
Campaign 1 Sediment	SB01	DEFRA-I2-S-01-B-C	UKCEH	Intermediate
Campaign 1 Sediment	SB01	DEFRA-I2-S-01-C-C	UKCEH	Intermediate
Campaign 1 Sediment	SB01	DEFRA-I2-S-02-A-C	UKCEH	Intermediate
Campaign 1 Sediment	SB01	DEFRA-I2-S-02-B-C	UKCEH	Intermediate
Campaign 1 Sediment	SB01	DEFRA-I2-S-02-C-C	UKCEH	Intermediate
Campaign 1 Sediment	SB01	DEFRA-I2-S-03-A-C	UKCEH	Intermediate
Campaign 1 Sediment	SB01	DEFRA-I2-S-03-B-C	UKCEH	Intermediate
Campaign 1 Sediment	SB01	DEFRA-I2-S-03-C-C	UKCEH	Intermediate
Campaign 1 Sediment	SB02	DEFRA-U3-S-01-A-C	UKCEH	Urban
Campaign 1 Sediment	SB02	DEFRA-U3-S-01-B-C	UKCEH	Urban
Campaign 1 Sediment	SB02	DEFRA-U3-S-01-C-C	UKCEH	Urban
Campaign 1 Sediment	SB02	DEFRA-U3-S-02-A-C	UKCEH	Urban
Campaign 1 Sediment	SB02	DEFRA-U3-S-02-B-C	UKCEH	Urban
Campaign 1 Sediment	SB02	DEFRA-U3-S-02-C-C	UKCEH	Urban
Campaign 1 Sediment	SB02	DEFRA-U3-S-03-A-C	UKCEH	Urban
Campaign 1 Sediment	SB02	DEFRA-U3-S-03-B-C	UKCEH	Urban
Campaign 1 Sediment	SB02	DEFRA-U3-S-03-C-C	UKCEH	Urban
Campaign 1 Sediment	SB02	DEF-S-SUPERDATANT-I1	UKCEH	Urban
Campaign 1 Sediment	SB01	DEF-S-SUPERDATANT-I2	UKCEH	Intermediate
Campaign 1 Sediment	SB02	DEF-S-SUPERDATANT-U3	UKCEH	Urban

Catchment	GMNC ID	Sample date	Filter rig ID	what3words	Mass represented in the analysis (kg dw)
(10m)	n.a.	03/12/2021	n.a.	n.a.	0.023
(10m)	n.a.	03/12/2021	n.a.	n.a.	0.022
(10m)	n.a.	03/12/2021	n.a.	n.a.	0.027
(3m)	n.a.	03/12/2021	n.a.	n.a.	0.025
(3m)	n.a.	03/12/2021	n.a.	n.a.	0.025
(3m)	n.a.	03/12/2021	n.a.	n.a.	0.027
(10m)	n.a.	03/12/2021	n.a.	n.a.	0.026
(10m)	n.a.	03/12/2021	n.a.	n.a.	0.028
(10m)	n.a.	03/12/2021	n.a.	n.a.	0.024
Irk	IU2	09/02/2022	n.a.	inches.deny.humble	0.016
Irk	IU2	09/02/2022	n.a.	inches.deny.humble	0.018
Irk	IU2	09/02/2022	n.a.	inches.deny.humble	0.016
Irk	IU2	09/02/2022	n.a.	inches.deny.humble	0.011
Irk	IU2	09/02/2022	n.a.	inches.deny.humble	0.019
Irk	IR4	01/02/2022	n.a.	puddles.army.dawn	0.031
Irk	IR4	01/02/2022	n.a.	puddles.army.dawn	0.024
Irk	IR4	01/02/2022	n.a.	puddles.army.dawn	0.022
Irk	IR4	01/02/2022	n.a.	puddles.army.dawn	0.026
Irk	IR4	01/02/2022	n.a.	puddles.army.dawn	0.026
Irk	IR4	01/02/2022	n.a.	puddles.army.dawn	0.019
Irk	IR4	01/02/2022	n.a.	puddles.army.dawn	0.022
Irk	IR4	01/02/2022	n.a.	puddles.army.dawn	0.015
Irk	IR4	01/02/2022	n.a.	puddles.army.dawn	0.021
Medlock	MU4	10/02/2022	n.a.	pin.es.sang.ropes	0.007
Medlock	MU4	10/02/2022	n.a.	pin.es.sang.ropes	0.005
Medlock	MU4	10/02/2022	n.a.	pin.es.sang.ropes	0.007
Medlock	MU4	10/02/2022	n.a.	pin.es.sang.ropes	0.008
Medlock	MU4	10/02/2022	n.a.	pin.es.sang.ropes	0.009
Medlock	MU4	10/02/2022	n.a.	pin.es.sang.ropes	0.009
Medlock	MU4	10/02/2022	n.a.	pin.es.sang.ropes	0.005
Medlock	MU4	10/02/2022	n.a.	pin.es.sang.ropes	0.005
Medlock	MU4	10/02/2022	n.a.	pin.es.sang.ropes	0.003
Irk	IU2	09/02/2022	n.a.	inches.deny.humble	1L
Irk	IR4	01/02/2022	n.a.	puddles.army.dawn	1L
Medlock	MU4	10/02/2022	n.a.	pin.es.sang.ropes	1L

		Cel-mod		EVA		NBR			
% deposited	Mass represented in processed sample (kg dw)	cellulose artfical modified		ethylene-vinyl-acetate		nitrile rubber		pc	
100%	0.0228	<	62.68	=	2710.63	<	43.86	<	
100%	0.0222	<	64.32	=	1206.42	<	45.02	<	
100%	0.0267	<	53.43	=	1488.12	<	37.39	<	
100%	0.0246	<	58.13	=	1456.32	<	40.68	<	
100%	0.0246	<	58.13	=	1008.85	<	40.68	<	
100%	0.0272	<	52.49	=	1278.24	<	36.73	<	
100%	0.0257	<	55.57	=	186.68	<	38.89	<	
100%	0.0278	<	51.42	<	35.98	<	35.98	<	
100%	0.0243	<	58.74	=	115.10	<	41.11	<	
100%	0.016	<	100.4	=	298.2	<	62.1	=	
100%	0.018	<	89.4	<	73.0	<	55.3	<	
100%	0.016	<	98.8	≈	171.2	<	61.1	<	
61%	0.018	≈	114.4	≈	175.7	<	57.1	<	
86%	0.022	<	74.5	<	60.8	<	46.1	<	
100%	0.031	<	51.4	=	1326.6	<	31.8	<	
77%	0.032	<	50.9	<	41.5	<	31.5	<	
75%	0.030	<	54.0	<	44.1	<	33.4	<	
88%	0.029	<	55.0	=	314.6	<	34.0	<	
86%	0.031	<	52.6	=	388.5	<	32.5	<	
65%	0.029	≈	91.0	≈	61.6	<	33.9	<	
92%	0.024	<	68.1	=	946.4	<	42.1	<	
57%	0.027	<	60.9	=	967.3	<	37.7	<	
77%	0.027	<	60.3	=	436.7	<	37.3	<	
53%	0.014	≈	229.0	=	636.2	<	71.7	<	
42%	0.011	<	145.8	=	2330.8	<	90.2	<	
57%	0.012	<	131.5	=	875.5	<	81.3	<	
50%	0.016	<	103.9	=	501.1	<	64.2	<	
58%	0.015	<	105.3	=	2909.5	<	65.1	=	
58%	0.016	≈	188.1	=	477.0	<	61.7	=	
36%	0.015	<	110.7	=	746.8	<	68.4	<	
38%	0.014	<	115.1	=	1685.7	<	71.2	<	
21%	0.014	<	112.8	<	92.1	<	69.8	<	
100%	1L	<	1.62	<	1.32	<	1.00	<	
100%	1L	<	1.62	<	1.32	<	1.00	<	
100%	1L	<	1.62	≈	3.00	<	1.00	<	



Microplastic polymer counts kg-1 dw											
PEEK	PE		PE-c		PE-o		PI		PIs-c		
polyetheretherketone	polyethylene		polyethylene chlorinated		polyethylene oxidized		polyimide		polyisoprene-chlorinated		poly
43.86	=	43.86	=	78.95	<	43.86	<	43.86	<	43.86	<
45.02	<	45.02	=	261.09	<	45.02	<	45.02	<	45.02	<
37.39	<	37.39	=	553.37	<	37.39	<	37.39	<	37.39	<
40.68	=	81.36	=	235.94	<	40.68	<	40.68	<	40.68	<
40.68	<	40.68	=	480.02	<	40.68	<	40.68	<	40.68	<
36.73	=	110.19	=	139.58	<	36.73	<	36.73	<	36.73	<
38.89	<	38.89	<	38.89	<	38.89	<	38.89	<	38.89	<
35.98	<	35.98	<	35.98	<	35.98	<	35.98	<	35.98	<
41.11	<	41.11	=	115.10	<	41.11	<	41.11	<	41.11	<
62.1	<	62.1	<	82.0	<	62.1	<	62.1	<	62.1	<
55.3	<	55.3	<	73.0	<	55.3	<	55.3	<	55.3	<
61.1	<	61.1	<	80.7	<	61.1	<	61.1	<	61.1	<
57.1	=	93.6	=	456.4	<	57.1	<	57.1	<	57.1	<
46.1	<	46.1	≈	79.6	<	46.1	<	46.1	<	46.1	<
31.8	=	392.1	=	167.4	<	31.8	<	31.8	<	31.8	=
31.5	<	31.5	<	41.5	=	41.1	<	31.5	<	31.5	<
33.4	<	33.4	≈	60.2	<	33.4	<	33.4	<	33.4	<
34.0	<	34.0	=	228.5	<	34.0	<	34.0	<	34.0	<
32.5	<	32.5	=	137.8	<	32.5	<	32.5	<	32.5	<
33.9	=	205.2	=	198.4	<	33.9	<	33.9	<	33.9	<
42.1	<	42.1	=	215.8	<	42.1	<	42.1	<	42.1	<
37.7	=	133.0	<	49.7	<	37.7	<	37.7	<	37.7	<
37.3	<	37.3	=	173.0	<	37.3	<	37.3	<	37.3	<
71.7	=	257.6	≈	256.3	<	71.7	<	71.7	<	71.7	<
90.2	=	1127.5	=	1753.7	<	90.2	<	90.2	<	90.2	<
81.3	=	588.5	=	590.1	<	81.3	<	81.3	<	81.3	<
64.2	=	257.0	=	380.7	<	64.2	<	64.2	<	64.2	<
65.1	=	224.6	=	863.9	<	65.1	<	65.1	<	65.1	<
61.7	<	61.7	<	81.5	<	61.7	<	61.7	<	61.7	<
68.4	=	190.1	=	649.4	<	68.4	<	68.4	<	68.4	<
71.2	<	71.2	=	1311.2	<	71.2	<	71.2	<	71.2	<
69.8	=	664.6	=	2778.9	<	69.8	<	69.8	<	69.8	=
1.00	<	1.00	<	1.32	<	1.00	<	1.00	<	1.00	<
1.00	<	1.00	<	1.32	<	1.00	<	1.00	<	1.00	<
1.00	<	1.00	<	1.32	=	1.00	<	1.00	<	1.00	<

PLA	POM		PP		PS		PSU		PVC		
lactic acid	polyoxymethylene		polypropylene		polystyrene		polysulfone		polyvinylchloride		rub
43.86	<	43.86	=	421.07	<	47.87	<	43.86	<	43.86	<
45.02	<	45.02	≈	207.07	<	49.13	<	45.02	<	45.02	<
37.39	<	37.39	≈	209.38	<	40.81	<	37.39	<	37.39	<
40.68	=	81.36	<	104.79	<	44.40	<	40.68	<	40.68	<
40.68	<	40.68	=	797.31	<	44.40	<	40.68	<	40.68	<
36.73	<	36.73	=	830.12	<	40.09	<	36.73	<	36.73	<
38.89	<	38.89	≈	217.80	<	42.45	<	38.89	<	38.89	<
35.98	<	35.98	≈	129.54	<	39.27	<	35.98	<	35.98	<
41.11	<	41.11	≈	106.88	<	44.86	<	41.11	<	41.11	<
62.1	<	62.1	≈	534.3	<	62.1	<	62.1	=	124.2	<
55.3	<	55.3	≈	309.8	<	55.3	<	55.3	=	221.3	<
61.1	<	61.1	≈	587.0	<	61.1	<	61.1	=	183.4	<
57.1	<	57.1	≈	368.4	=	187.1	<	57.1	=	411.8	<
46.1	<	46.1	≈	405.3	<	46.1	<	46.1	=	177.6	<
78.4	=	78.4	=	1915.8	<	31.8	<	31.8	=	78.4	<
31.5	<	31.5	=	945.3	<	31.5	<	31.5	=	112.7	<
33.4	<	33.4	≈	456.1	<	33.4	<	33.4	<	33.4	<
34.0	<	34.0	=	887.0	=	81.5	<	34.0	<	34.0	<
32.5	<	32.5	=	1528.1	<	32.5	<	32.5	<	32.5	<
33.9	<	33.9	=	622.6	<	33.9	<	33.9	=	68.4	<
42.1	<	42.1	=	2564.1	=	45.7	<	42.1	=	199.3	<
37.7	<	37.7	=	4329.6	<	37.7	<	37.7	=	210.5	<
37.3	<	37.3	=	1215.1	<	37.3	<	37.3	=	416.4	<
71.7	<	71.7	=	6307.8	=	908.2	<	71.7	=	2196.4	<
90.2	<	90.2	=	17621.5	=	1771.7	<	90.2	=	4160.9	<
81.3	<	81.3	=	9934.3	=	2407.6	<	81.3	=	3317.1	<
64.2	<	64.2	=	2536.2	=	546.1	<	64.2	=	811.1	<
65.1	<	65.1	=	9628.9	=	1080.1	<	65.1	=	2970.2	<
61.7	<	61.7	=	3106.6	=	382.9	<	61.7	=	1106.2	<
68.4	<	68.4	=	6271.9	=	1136.1	<	68.4	=	945.9	<
71.2	<	71.2	=	11138.3	=	2088.9	<	71.2	=	1426.2	<
332.3	<	69.8	=	2364.8	=	332.3	<	69.8	=	933.8	<
1.00	<	1.00	≈	5.13	<	1.00	<	1.00	<	1.00	<
1.00	<	1.00	≈	7.13	<	1.00	<	1.00	<	1.00	<
1.00	<	1.00	=	21.13	<	1.00	<	1.00	<	1.00	<

R1	R2		R3		AB	Total MPs kg-1 dw			
ber type 1	rubber type 2		rubber type 3		acrylonitrile-butadiene	Blank corrected	>LOD	>LOQ	
43.86	<	43.86	<	43.86	<	43.86	3,254.5	3,254.5	3,254.5
45.02	<	45.02	<	45.02	<	45.02	1,674.6	1,674.6	1,467.5
37.39	<	37.39	<	37.39	<	37.39	2,250.9	2,250.9	2,041.5
40.68	<	40.68	<	40.68	<	40.68	1,895.7	1,855.0	1,855.0
40.68	<	40.68	<	40.68	<	40.68	2,351.3	2,286.2	2,286.2
36.73	<	36.73	<	36.73	<	36.73	2,394.9	2,358.1	2,358.1
38.89	<	38.89	<	38.89	<	38.89	404.5	404.5	186.7
35.98	<	35.98	<	35.98	<	35.98	230.3	201.5	-
41.11	<	41.11	<	41.11	<	41.11	337.1	337.1	230.2
62.1	<	62.1	<	62.1	<	62.1	1,081	1,081	547
55.3	<	55.3	<	55.3	<	55.3	653	531	221
61.1	<	61.1	<	61.1	<	61.1	1,027	942	183
57.1	<	57.1	<	57.1	<	57.1	1,807	1,807	1,149
46.1	<	46.1	<	46.1	<	46.1	662	662	178
31.8	<	31.8	<	31.8	<	31.8	4,037	4,037	4,037
31.5	<	31.5	<	31.5	<	31.5	1,134	1,099	1,099
33.4	<	33.4	<	33.4	<	33.4	516	516	-
34.0	<	34.0	<	34.0	<	34.0	1,512	1,512	1,512
32.5	<	32.5	<	32.5	<	32.5	2,054	2,054	2,054
33.9	<	33.9	<	33.9	<	33.9	1,247	1,247	1,095
42.1	<	42.1	<	42.1	<	42.1	4,067	4,017	4,017
37.7	<	37.7	<	37.7	<	37.7	5,640	5,640	5,640
37.3	<	37.3	<	37.3	<	37.3	2,241	2,241	2,241
71.7	<	71.7	<	71.7	<	71.7	10,792	10,792	10,306
90.2	<	90.2	<	90.2	<	90.2	29,330	29,330	29,330
81.3	<	81.3	<	81.3	<	81.3	18,016	18,016	18,016
64.2	<	64.2	<	64.2	<	64.2	5,289	5,289	5,289
65.1	<	65.1	<	65.1	<	65.1	18,059	18,059	18,059
61.7	<	61.7	<	61.7	<	61.7	6,197	6,197	6,009
68.4	<	68.4	<	68.4	<	68.4	9,940	9,940	9,940
71.2	<	71.2	<	71.2	<	71.2	18,126	18,126	18,126
69.8	<	69.8	<	69.8	<	69.8	7,407	7,407	7,407
1.00	<	1.00	<	1.00	<	1.00	5.13	5.13	-
1.00	<	1.00	<	1.00	<	1.00	7.13	7.13	-
1.00	<	1.00	<	1.00	<	1.00	26.13	25.13	22.13