

Table S1. Confusion matrix obtained from the balanced validation mosaic dataset.

		Predicted				
		Natural materials	Water	HDPE	PS	PP
Ground truth	Natural materials	1290	12	11	0	7
	Water	26	1293	1	0	0
	HDPE	4	20	1281	4	11
	PS	6	79	0	1233	2
	PP	60	33	0	0	1227

Table S2. Confusion matrix obtained from the Sisto River subset of the unbalanced validation mosaic dataset.

		Predicted				
		Natural materials	Water	HDPE	PS	PP
Ground truth	Natural materials	26	0	0	0	0
	Water	19	73269	15	27	26
	HDPE	5	22	213	4	12
	PS	1	48	0	239	2
	PP	1	33	0	0	179

Table S3. Confusion matrix obtained from the Aniene River subset of the unbalanced validation mosaic dataset.

		Predicted				
		Natural materials	Water	HDPE	PS	PP
Ground truth	Natural materials	3461	104	0	0	0
	Water	710	70392	4	9	16
	HDPE	0	0	193	0	0
	PS	5	31	0	247	0
	PP	7	9	0	0	190

Table S4. Confusion matrix obtained from the Po River subset of the unbalanced validation mosaic dataset.

		Predicted				
		Natural materials	Water	HDPE	PS	PP
Ground truth	Natural materials	14535	62	157	14	101
	Water	3981	91991	80	7	2
	HDPE	0	0	998	4	13
	PS	0	0	0	747	0
	PP	69	0	18	11	1188