Spearman's Correlation Coefficient (Two-tailed)		Water Depth	Mean (mm)	Sorting	Skewness	Kurtosis	Fines (%)	Sands(%)	Gravel (%)	Total Organic Carbon (%)	Total Organic Matter (%)	Moisture Content (%)	Carbonate Content (%)	Total Oil (µg.kg-1)	n alkanes (µg.kg-1)	Carbon preference index	P/B ratio	Proportion of alkanes (%)	Total PAHs (µg.kg-1)	NPD PAHs (µg.kg-1)
Number of Data Points	7																			
p=0.05, 95% Significant	0.786																			
p=0.01, 99% Significant	0.929																			
p=0.001, 99.9% Significant	1.000																			
Water Depth			-0.583	-0.693	-0.474	0.000	-0.292	0.729	-0.182	0.219	-0.144	0.547	-0.438	-0.292	0.073	-0.073	-0.564	0.365	0.133	0.133
Mean (mm)				0.964	0.036	-0.571	-0.429	-0.857	0.750	0.300	0.646	-0.393	0.857	0.143	-0.357	0.071	0.090	-0.500	0.229	0.229
Sorting					0.071	-0.500	-0.393	-0.893	0.786	0.225	0.578	-0.500	0.821	0.214	-0.286	0.036	0.210	-0.536	0.086	0.086
Skewness						0.000	0.321	-0.250	-0.179	0.337	-0.204	-0.107	-0.250	0.071	-0.179	0.286	0.510	-0.036	0.514	0.514
Kurtosis							0.357	0.643	-0.750	-0.675	-0.714	0.393	-0.357	-0.571	-0.179	0.500	0.300	-0.143	-0.657	-0.657
Fines (%)								0.071	-0.714	-0.525	-0.204	-0.071	-0.357	0.357	0.607	-0.357	0.330	0.571	-0.200	-0.200
Sands(%)									-0.679	-0.300	-0.714	0.536	-0.714	-0.500	-0.071	0.286	-0.330	0.143	-0.229	-0.229
Gravel (%)										0.525	0.612	-0.429	0.607	0.286	-0.143	-0.179	-0.120	-0.357	0.229	0.229
Total Organic Carbon (%)											0.454	0.187	0.150	-0.037	-0.225	0.037	0.036	0.075	0.784	0.784
Total Organic Matter (%)												0.000	0.782	0.272	0.238	-0.476	0.159	0.272	0.206	0.206
Moisture Content (%)													-0.036	-0.786	-0.214	0.357	0.240	0.286	-0.057	-0.057
Carbonate Content (%)														-0.071	-0.214	0.000	0.270	-0.286	-0.114	-0.114
Total Oil (µg.kg-1)															0.714	-0.821	-0.180	0.357	0.171	0.171
n alkanes (µg.kg-1)																-0.929	0.030	0.821	-0.200	-0.200
Carbon preference index																	0.150	-0.714	0.029	0.029
P/B ratio																		0.090	-0.247	-0.247
Proportion of alkanes (%)																			0.086	0.086
Total PAHs (µg.kg-1)																				1.000
NPD PAHs (µg.kg-1)																				
Arsenic (mg.kg-1)																				
Cadmium (mg.kg-1)																				
Chromium (mg.kg-1)																				
Copper (mg.kg-1)																				
Lead (mg.kg-1)																				
Mercury (mg.kg-1)																				
Nickel (mg.kg-1)																				
Vanadium (mg.kg-1)																				
Zinc (mg.kg-1)																				
Aluminium (mg.kg-1)																				
Iron (mg.kg-1)																				
Barium (mg.kg-1)																				
Lithium (mg.kg-1)																				
Titanium (mg.kg-1)																				
Number of Species (S)																				
Number of Individuals (N)																				
Richness (Margalef)																				
Eveness (Pielou's)																				
Shannon Wiener Diversity																				
Simpson's Diversity (1-Lambda)																				

Spearman's Correlation Coefficient (Two-tailed)		Arsenic (mg.kg-1)	Cadmium (mg.kg-1)	Chromium (mg.kg-1)	Copper (mg.kg-1)	Lead (mg.kg-1)	Mercury (mg.kg-1)	Nickel (mg.kg-1)	Vanadium (mg.kg-1)	Zinc (mg.kg-1)	Aluminium (mg.kg-1)	Iron (mg.kg-1)	Barium (mg.kg-1)	Lithium (mg.kg-1)	Titanium (mg.kg-1)	Number of Species (S)	Number of Individuals (N)	Richness (Margalef)	Eveness (Pielou's)	Shannon Wiener Diversity	Simpson's Diversity (1-Lambda)
Number of Data Points	7																				
p=0.05, 95% Significant	0.786																				
p=0.01, 99% Significant	0.929																				
p=0.001, 99.9% Significant	1.000																				
Water Depth		-0.547	1.000	0.000	0.182	0.182	0.655	0.073	-0.109	-0.219	-0.109	-0.073	-0.073	-0.477	-0.109	-0.073	-0.303	-0.182	-0.583	-0.365	-0.620
Mean (mm)		0.821	-1.000	0.429	0.536	0.107	-1.000	0.643	0.536	0.643	0.679	0.643	0.500	0.915	0.393	0.357	0.401	0.464	0.429	0.643	0.750
Sorting		0.857	-1.000	0.393	0.429	0.143	-0.993	0.571	0.607	0.714	0.643	0.607	0.393	0.850	0.429	0.393	0.401	0.536	0.571	0.679	0.857
Skewness		-0.214	-0.655	0.071	-0.357	-0.464	-1.000	-0.500	-0.357	-0.286	-0.036	-0.250	0.071	0.098	0.107	-0.107	0.073	-0.143	0.393	-0.071	0.214
Kurtosis		-0.286	0.982	-0.964	-0.857	-0.464	0.655	-0.786	-0.571	-0.750	-0.964	-0.929	-0.679	-0.784	-0.893	-0.857	-0.693	-0.821	-0.143	-0.821	-0.536
Fines (%)		-0.321	0.500	-0.250	-0.536	-0.071	0.756	-0.500	-0.464	-0.464	-0.429	-0.357	-0.321	-0.261	-0.214	-0.143	0.073	-0.214	-0.071	-0.107	-0.286
Sands(%)		-0.750	1.000	-0.571	-0.393	-0.321	0.961	-0.571	-0.607	-0.714	-0.750	-0.714	-0.357	-0.915	-0.607	-0.571	-0.547	-0.679	-0.643	-0.857	-0.893
Gravel (%)		0.643	-1.000	0.679	0.714	0.429	-0.655	0.786	0.821	0.929	0.857	0.821	0.464	0.719	0.714	0.679	0.438	0.786	0.429	0.750	0.786
Total Organic Carbon (%)		0.075	-0.397	0.600	0.412	0.225	-0.655	0.412	0.375	0.337	0.675	0.487	0.300	0.461	0.525	0.337	0.066	0.337	0.337	0.337	0.412
Total Organic Matter (%)		0.714	1.000	0.544	0.510	0.748	-0.866	0.885	0.782	0.680	0.816	0.851	0.136	0.832	0.476	0.510	0.238	0.612	0.442	0.816	0.646
Moisture Content (%)		-0.143	0.778	-0.536	-0.429	0.071	0.500	-0.143	-0.143	-0.536	-0.357	-0.393	-0.607	-0.360	-0.643	-0.679	-0.875	-0.643	-0.036	-0.536	-0.393
Carbonate Content (%)		0.964	1.000	0.143	0.321	0.393	-0.961	0.714	0.679	0.571	0.536	0.571	0.071	0.784	0.107	0.143	0.036	0.321	0.500	0.571	0.679
Total Oil (µg.kg-1)		0.000	-0.596	0.714	0.429	0.357	0.327	0.286	0.250	0.536	0.500	0.571	0.429	0.360	0.786	0.857	0.875	0.786	0.036	0.714	0.321
n alkanes (µg.kg-1)		-0.143	0.500	0.286	0.000	0.643	0.945	0.143	0.214	0.214	0.143	0.286	-0.214	-0.065	0.357	0.500	0.328	0.464	0.000	0.429	0.000
Carbon preference index		-0.036	-0.240	-0.571	-0.357	-0.750	-0.721	-0.464	-0.429	-0.500	-0.464	-0.607	-0.071	-0.229	-0.607	-0.750	-0.547	-0.714	0.000	-0.679	-0.179
P/B ratio		0.390	0.500	-0.360	-0.690	0.120	0.500	-0.240	0.180	-0.090	-0.120	-0.210	-0.660	0.086	-0.240	-0.330	-0.442	-0.150	0.840	0.060	0.480
Proportion of alkanes (%)		-0.321	0.982	0.179	-0.107	0.571	0.961	0.071	0.036	-0.107	0.071	0.143	-0.321	-0.131	0.143	0.214	0.000	0.143	-0.071	0.179	-0.214
Total PAHs (µg.kg-1)		-0.257	-0.866	0.657	0.486	-0.171	-0.866	0.171	-0.114	0.057	0.514	0.343	0.657	0.422	0.514	0.343	0.396	0.200	-0.086	0.200	0.086
NPD PAHs (µg.kg-1)		-0.257	-0.866	0.657	0.486	-0.171	-0.866	0.171	-0.114	0.057	0.514	0.343	0.657	0.422	0.514	0.343	0.396	0.200	-0.086	0.200	0.086
Arsenic (mg.kg-1)			1.000	0.107	0.214	0.429	-0.982	0.643	0.750	0.643	0.500	0.536	-0.036	0.719	0.143	0.179	0.036	0.393	0.643	0.607	0.786
Cadmium (mg.kg-1)				-0.961	-0.721	0.961	#DIV/0!	0.500	1.000	-0.500	-1.000	-0.500	-0.933	-1.000	-0.961	-0.721	-0.778	-0.655	0.240	-0.500	-0.500
Chromium (mg.kg-1)					0.821	0.393	-0.500	0.643	0.464	0.714	0.893	0.857	0.714	0.654	0.964	0.929	0.802	0.857	0.071	0.786	0.464
Copper (mg.kg-1)						0.286	-0.756	0.786	0.429	0.679	0.786	0.821	0.821	0.621	0.714	0.750	0.693	0.679	-0.250	0.607	0.250
Lead (mg.kg-1)							0.500	0.714	0.821	0.643	0.571	0.679	-0.250	0.327	0.429	0.536	0.073	0.643	0.357	0.679	0.429
Mercury (mg.kg-1)								-0.721	-0.240	-0.397	-0.655	-0.596	-0.945	-0.982	-0.327	-0.189	-0.655	-0.189	-0.500	-0.500	-0.721
Nickel (mg.kg-1)									0.821	0.821	0.857	0.929	0.357	0.752	0.571	0.643	0.365	0.714	0.179	0.786	0.536
Vanadium (mg.kg-1)										0.893	0.750	0.786	-0.036	0.588	0.536	0.571	0.146	0.750	0.607	0.786	0.786
Zinc (mg.kg-1)											0.857	0.893	0.357	0.686	0.786	0.821	0.547	0.929	0.429	0.893	0.786
Aluminium (mg.kg-1)												0.964	0.536	0.850	0.857	0.821	0.583	0.857	0.357	0.893	0.714
Iron (mg.kg-1)													0.500	0.817	0.821	0.857	0.620	0.893	0.250	0.929	0.643
Barium (mg.kg-1)														0.523	0.607	0.571	0.802	0.429	-0.357	0.357	0.107
Lithium (mg.kg-1)															0.588	0.556	0.524	0.621	0.425	0.817	0.752
Titanium (mg.kg-1)																0.964	0.802	0.929	0.214	0.821	0.571
Number of Species (S)																	0.839	0.964	0.107	0.857	0.500
Number of Individuals (N)																		0.729	-0.146	0.656	0.292
Richness (Margalef)																			0.321	0.929	0.679
Eveness (Pielou's)																				0.464	0.857
Shannon Wiener Diversity																					0.786
Simpson's Diversity (1-Lambda)																					