Statistical relationship between the variables

	Depth (m)	P-TEP (µg X	C-TEP (µg Xeq./L)-Site A	Bacterial count (cells/ml)-Site A	Total algae (events/ml)-Site A	TOC (mg/L	Biopolymers	
Site **A**	0	279.36	340.9	451,650	43,612	1.345	150	**A-C**
	10	221.76	283.8	378,300	58,487	1.11	169	
	20	207.36	269.6	325,700	49,427	1.068	154	Dependent
	30	164.16	226.8	327,433	53,980	1.191	141	
	40	250.56	312.4	338,700	48,440	1.178	154	
	50	192.96	255.3	279,000	95,772	1.018	149	
	60	164.16	226.8	220,000	50,663	0.967	123	
	70	164.16	226.8	177,500	18,593	0.995	112	
	80	178.56	241.0	130,400	5,853	1.006	105	
	90	149.76	212.5	113,233	2,790	0.91	104	
Site **B**	0	135.36	268.1	355,567	59,230	0.994	198	
	10	149.76	169.7	365,900	63,002	1.15	319	
	20	135.36	139.8	226,300	38,177	0.9875	147	
	30	106.56	139.8	254,233	33,817	1.0605	160	**A-D**
	40	135.36	107.0	234,500	42,150	1.047	135	
	50	120.96	121.2	242,600	89,885	1.127	136	
	60	106.56	69.9	154,467	25,218	0.97	125	
	70	106.56	104.1	90,733	11,297	1.051	105	
	80	77.76	94.1	80,867	3,490	0.98	121	
	90	92.16	79.9	84,767	2,285	0.9525	99	
Site **C**	0	175.68	25.7	398,700	34,210	1.025	169	
	10	168.48	0.0	454,550	68,550	1.022	355	
	20	90.72	155.5	277,950	61,795	1.002	142	
	30	123.84	20.0	242,200	36,368	1.049	150	
	40	135.36	119.8	237,233	61,820	1.134	139	**A-E**
	50	138.24	67.0	230,700	76,185	1.018	141	
	60	105.12	104.1	220,333	40,115	1.025	175	
	70	80.64	48.5	126,433	12,430	1.032	113	
	80	90.72	174.0	101,500	3,075	0.955	103	
	90	109.44	64.2	103,867	1,900	0.921	93	
Deep	0	211.71	193.8	532500	128077	1.09	45	
	10	211.71	263.1	507100	121507	1.17	40	
	20	231.71	176.9	506750	109840	1.11	31	
	30	243.14	158.5	490050	104593	1.27	40	
	40	286.00	135.4	568500	89153	1.04	25	
	50	203.14	133.8	458000	73797	1.11	15	
	60	180.29	93.8	460100	69253	1.05	38	
	70	277.43	196.9	438800	52973	1.14	33	
	80	243.14	87.7	395650	31363	1.02	25	
	90	186.00	172.3	345750	8907	1.11	31	

Deep Profile	100	248.86	96.9	315450	4067	0.93	19
	120	223.14	126.2	242300	2642	0.99	14
	140	177.43	73.8	192700	832	0.89	11
	160	188.86	76.9	157850	467	0.89	11
	180	134.57	115.4	146967	315	0.85	7
	200	286.00	109.2	152033	332	0.95	7
	220	174.57	73.8	139067	303	0.86	11
	240	168.86	56.9	138250	342	0.81	4
	260	171.71	46.2	114050	257	0.79	9
	280	168.86	89.2	117000	240	0.83	5
	300	168.86	60.0	92350	277	0.74	7
Near Shore (Surface)		121	73	196,377	3,603	0.94	90
		157	122	264,728	1,677	1.02	116
		123	130	179,837	14,956	0.88	63
		53	56	317,174	23,773	0.83	84
		318	90	520,350	129,738	1.1	57
		249	120	254,450	89,033	1	44
		255	115	216,400	42,923	0.9	32
		142	189	282,450	108,740	1.162	49
		146	213	583,400	61,925	1.287	44
		347	287	1,736,450	53,810	1.164	93
		0	0	2,182,550	43,060	1.181	83
		261	132	1,356,600	91,870	1.1	55
		278	100	273,400	4,766	1.42	29
		346	97	236,000	9,350	1.037	55
		229	170	287,850	3,140	0.992	36
		85	127	324,600	4,958	1.085	43
		99	117	389,450	11,080	0.97	53
		82	112	316450	6,057	1.112	40
		97	69	321,250	52,453	0.923	35
		213	50	630,600	12,228	0.831	39
		138	43	347,133	10,673	1.004	33
		182	87	292,500	12,890	1.275	36
		143	50	450,800	28,009	0.93	31
		186	36	336,900	44,153	1.041	42
		300	105	297,867	52,453	1.084	28

Independent

	P-TEP (µg Xeq.	*C-TEP (µg Xeq.*	*Bacterial coun*	*Total algae (e*	*TOC (mg/L)*	*Biopolymers*
P-TEP (µg Xeq./L	1.000					
C-TEP (µg Xeq./L	0.689	1.000				
Bacterial count (	0.679	0.304	1.000			
Total algae (ever	0.362	0.185	0.690	1.000		
TOC (mg/L)	0.612	0.417	0.635	0.437	1.000	
Biopolymers	0.228	-0.100	0.707	0.509	0.272	1.000

Absolute value of 0-0.19 is regarded as very weak, 0.2-0.39 as weak, 0.6-0.79 as strong and 0.8-1 as very
But these are rather arbitrary limits, and the context of the results should be considered.

	P-TEP (µg Xeq.	*C-TEP (µg Xeq.*	*Bacterial coun*	*Total algae (e*	*TOC (mg/L)*	*Biopolymers*
P-TEP (µg Xeq./L	1.000					
C-TEP (µg Xeq./L	0.373	1.000				
Bacterial count (	0.623	0.337	1.000			
Total algae (ever	0.280	0.354	0.792	1.000		
TOC (mg/L)	0.324	0.529	0.668	0.646	1.000	
Biopolymers	-0.363	0.143	0.081	0.235	0.337	1.000

	P-TEP (µg Xeq	*C-TEP (µg Xeq.*	*Bacterial coun*	*Total algae (e*	*TOC (mg/L)*	*Biopolymers*
P-TEP (µg Xeq./L)-Site A						
C-TEP (µg Xeq./L	0.327					
Bacterial count (	0.152	0.075				
Total algae (ever	0.320	-0.019	0.016			
TOC (mg/L)	0.259	0.422	0.374	-0.169		
Biopolymers	-0.263	0.207	-0.006	-0.304	0.209	

All<0.8 No Multicollinearity

A- D (upto100m)

	P-TEP (µg Xeq./L)	*(µg Xeq./L)*	*Bacterial co*	*e (events/i*	*TOC (mg/L)*	*iopolymers*
P-TEP (µg Xeq./L)-Site	1.000					
C-TEP (µg Xeq./L)-Site	0.461	1.000				
Bacterial count (cells/	0.778	0.229	1.000			
Total algae (events/m	0.478	0.045	0.503	1.000		
TOC (mg/L)	0.517	0.426	0.588	0.133	1.000	
Biopolymers	-0.365	-0.052	-0.179	-0.236	-0.015	1.000

strong correlation,