

**Appendix E:**  
*Monthly Spearman Trend  
Analysis*



**Hearts Content Brook- NF02ZL0002**  
**Spearman Rank Correlation Coefficients for Monthly Means**

. significant at 0.05 level  
 .. significant at 0.02 level  
 \*\*\* significant at 0.01 level  
 \*\*\*\* significant at 0.005 level

	CONDL	COLORA	TURB	Q2D	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January	-0.561	0.295	0.317	0.671	-0.483	-0.517	-0.667	-0.335	0.286	-0.483	-0.517	0.126	-0.167	-0.741*	-0.500	-0.595	0.067	0.866
February	-0.527	0.125	0.579	-0.807*	-0.115	-0.158	-0.527	-0.316	-0.232	-0.236	-0.345	-0.298	-0.226	-0.557	-0.100	-0.667	-0.683*	0.207
March	0.262	0.123	0.755*	0.252	0.262	0.269	0.120	0.342	0.289	0.381	0.357	0.096	-0.452	-0.634	0.310	0.464	-0.479	0.258
April	-0.592*	0.511	0.182	-0.012	0.186	-0.055	-0.685*	-0.290	-0.289	-0.646*	-0.305	0.120	-0.371	-0.019	0.385	-0.018	-0.497	0.365
May	0.000	0.412	-0.108	0.000	0.071	0.108	0.048	0.049	0.252	0.240	-0.024	0.157	-0.571	-0.577	0.090	0.090	-0.635	0.000
June	0.250	0.237	0.183	0.100	0.153	0.454	0.142	0.176	-0.086	0.383	0.333	0.209	-0.133	0.060	0.717*	-0.262	-0.267	-0.283
July	0.071	0.049	-0.133	0.290	0.024	0.238	0.429	0.258	0.541	-0.589	0.000	0.000	-0.524	0.764*	-0.143	-0.238	0.143	0.707
August	0.234	0.410	0.075	0.454	-0.117	0.598	0.200	0.596	-0.479	0.017	0.350	0.644	0.100	-0.548	0.577	0.767*	0.134	0.207
September	0.000	0.784**	0.667	0.036	-0.595	0.778*	-0.048	0.552	0.123	0.643	0.085	0.553	-0.407	-0.577	0.286	0.857**	-0.119	0.000
October	-0.524	0.678**	0.358	0.146	0.182	-0.211	-0.445	-0.384	-0.238	-0.413	-0.741**	0.606*	-0.280	0.163	-0.043	0.273	0.042	0.068
November	-0.117	0.720*	0.584	-0.427	-0.667	-0.008	-0.385	0.298	0.616	0.780*	0.100	0.550	-0.477	0.455	-0.167	-0.120	0.300	0.289
December	-0.406	0.532	0.699*	0.463	0.529	-0.195	-0.515	-0.207	0.573	0.061	-0.127	0.024	-0.552	0.261	0.350	-0.200	-0.358	-0.309
Pos	6	6	12	10	9	7	6	5	7	7	7	5	11	1	5	7	5	10
Neg	6	0	2	3	5	6	7	5	5	5	7	7	1	1	7	5	7	7
Trend	no trend	pos trend	pos trend	pos trend	no trend	no trend	no trend	no trend	no trend	no trend	no trend	pos trend	neg trend	neg trend	no trend	no trend	no trend	pos trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MINT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	-0.339	0.548	0.548	0.494	0.548	-0.385	0.300	-0.060	-0.691	0.400	-0.091	0.224	-0.128	0.894	-0.460	0.000	-0.445
February	-0.466	0.522	0.522	-0.304	0.017	-0.612	-0.345	0.148	-0.259	0.030	0.435	-0.205	-0.019	-0.775	-0.354	0.262	-0.492
March	-0.167	-	-	0.056	-0.577	-0.736	-0.143	-0.878	-0.127	0.190	-	0.277	-0.676**	-	0.386	-0.770*	0.157
April	-0.529	0.648*	0.648*	-0.052	0.461	-0.255	-0.014	-0.342	0.059	0.000	0.184	0.291	-0.067	0.000	-0.439	0.376	-0.585
May	0.024	-	-	0.000	-	-0.301	-0.048	-0.866*	-0.485	-0.429	0.082	-0.412	-0.282	0.211	-0.048	-0.639	-0.228
June	-0.387	0.548	0.548	0.346	0.548	-0.185	-0.467	-0.507	0.321	-0.700*	0.207	0.414	0.588	-0.884	-0.042	0.730*	-0.588
July	0.167	0.577	0.630	0.000	0.041	-0.699	-0.357	-0.474	0.089	-0.571	0.577	0.109	-0.166	-0.884	0.333	0.613	0.012
August	-0.437	-	-	0.414	-0.548	-0.117	-0.517	-0.873**	-0.578	-0.833**	-	-0.548	-0.772*	-0.738	0.762*	-0.129	0.329
September	0.156	-	-	-0.183	-0.082	-0.512	-0.595	-0.866*	0.165	-0.762*	0.412	-	-0.520	-0.258	0.865**	-0.214	0.060
October	-0.088	0.480	0.389	-0.147	0.000	0.254	0.189	-0.319	0.479	-0.648*	0.480	0.194	-0.081	-0.775	-0.292	0.503	-0.207
November	0.025	-	-	0.183	-0.536	-0.599	0.359	-0.561	-0.309	0.619	-	-0.265	-0.495	-0.316	0.491	-0.395	0.132
December	-0.402	-	-	0.116	-	-0.254	0.183	-0.873**	0.000	-0.533	0.274	-0.104	0.494	-0.775	-0.176	0.137	-0.457
Pos	4	6	6	8	8	6	4	1	6	5	8	6	2	3	5	7	5
Neg	8	0	0	4	4	11	8	11	6	7	1	5	10	8	7	5	7
Trend	no trend	pos trend	pos trend	no trend	no trend	neg trend	no trend	neg trend	no trend	no trend	pos trend	no trend	neg trend	no trend	no trend	no trend	no trend

**Spout Cove Brook, NF02ZL0001**  
**Spearman Rank Correlation Coefficients for Monthly Means**

. significant at 0.05 level  
 \*\* significant at 0.02 level  
 \*\*\* significant at 0.01 level  
 \*\*\*\* significant at 0.005 level

	CONDL	COLORA	TURB	O2D	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	DOC	PT	NO3NO2	NIT	SID	ALT	AST
January	-0.429	0.464	0.357	0.259	0.050	-0.714	-0.595	-0.464	-0.419	-0.476	-0.357	0.244	-0.259	-0.381	-0.452	-0.342	-0.024	0.258
February	-0.263	-0.218	0.479	0.446	-0.024	-0.299	-0.429	-0.108	0.196	-0.238	-0.357	-0.048	-0.335	-0.503	-0.286	-0.679	0.048	-0.447
March	-0.429	0.049	0.643	-0.060	0.476	0.000	-0.357	-0.262	0.530	0.333	-0.214	0.119	-0.476	0.467	0.048	0.500	-0.036	-
April	-0.720*	0.035	0.717*	0.288	0.185	-0.700*	-0.800**	-0.444	0.063	-0.150	-0.517	0.117	-0.218	0.176	0.333	0.296	-0.350	-0.393
May	-0.429	0.439	0.571	0.530	-0.333	-0.238	-0.286	-0.537	-0.333	-0.333	-0.262	0.190	-0.169	-0.115	0.714	0.143	0.563	0.000
June	-0.452	0.417	0.410	0.143	0.108	-0.602	-0.643	-0.415	-0.135	-0.491	-0.524	0.095	-0.071	0.210	0.252	0.324	0.419	-0.894
July	-0.072	0.165	0.536	0.232	0.250	0.216	-0.336	-0.071	-0.412	-0.175	-0.607	0.071	-0.643	0.535	0.464	0.143	0.214	-
August	-0.954****	0.298	0.148	0.406	0.071	-0.667	-0.607	-0.704	-1.000****	-0.695	-0.679	0.286	0.643	0.039	0.071	0.750	-0.143	-0.775
September	-0.457	0.481	0.683	0.407	-0.024	-0.643	-0.643	-0.597	-0.446	-0.167	-0.476	0.687	0.277	-0.592	-0.714	0.714	0.190	-0.707
October	0.033	0.239	0.750*	0.075	0.437	0.176	-0.283	-0.289	-0.604	0.109	-0.333	0.563	-0.184	-0.104	0.571	0.405	-0.050	-0.707
November	-0.233	0.316	0.467	-0.350	-0.067	0.083	-0.351	-0.050	0.350	0.167	0.351	0.167	-0.427	-0.128	0.012	-0.024	0.109	-0.289
December	-0.050	0.410	0.696	-0.288	0.733*	-0.217	-0.350	0.093	0.444	0.059	0.093	-0.250	-0.333	-0.136	-0.429	-0.024	-0.717*	-0.856
Pos	1	11	12	9	8	4	0	1	4	4	2	10	2	5	8	8	6	2
Neg	11	1	0	3	4	8	12	11	8	8	10	2	10	7	4	4	6	8
Trend	neg trend	pos trend	pos trend	pos trend	no trend	no trend	neg trend	neg trend	no trend	no trend	neg trend	pos trend	neg trend	neg trend	no trend	no trend	no trend	neg trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	-0.479	-	-	-0.247	-0.247	-0.542	0.167	-0.828	-0.102	0.333	-0.247	0.171	-0.609	0.894	-0.500	-0.124	-0.635
February	-0.209	-	-	0.620	-0.082	0.128	0.310	0.213	0.282	0.299	-	-0.065	-0.546	-0.949	-0.132	-0.345	-0.707
March	-0.018	-	-	0.577	-0.401	0.429	0.071	-0.866	0.148	0.143	-0.401	-0.535	0.000	-	-0.071	-0.225	-0.342
April	-0.728*	-	-	-0.091	-	-0.454	0.087	-0.339	-0.076	-0.050	-0.365	0.365	-0.481	0.775	-0.746*	-0.657	-0.495
May	0.049	-	-	0.300	0.000	-0.317	0.738*	-0.281	0.000	0.790*	-0.247	0.382	-0.233	0.447	-0.431	-0.217	-0.096
June	-0.700	-0.082	-0.082	0.094	0.203	-0.651	0.143	-0.866*	-0.173	0.190	-0.062	0.378	-0.464	-0.949	-0.790*	0.300	-0.359
July	-0.036	-	-	-	0.134	-0.709	0.214	-0.555	-0.458	0.571	-	-0.612	-0.535	-0.258	-0.144	0.577	0.148
August	-0.418	-	-	0.158	-0.630	-0.306	-0.143	-0.828	-0.315	0.071	-	-0.535	-0.535	-0.738	-0.893*	-0.296	0.727
September	-0.383	-	-	0.252	-	-0.368	0.752*	-0.866*	-0.404	0.381	0.000	-	-0.846**	-0.775	-0.719	-0.289	0.101
October	-0.252	-	-	0.274	-0.183	0.579	0.283	0.134	0.632	0.333	-0.548	0.378	0.000	-0.894	0.068	-0.075	-0.070
November	-0.092	-0.411	-0.411	-0.605	-0.682	-0.335	0.238	-0.374	-0.096	0.690	-0.764*	-0.548	-0.709	-0.949	-0.145	-0.503	-0.108
December	-0.675	-	-	-	-0.247	-0.143	-0.738*	-0.279	-0.439	-0.383	-	-0.300	-0.791*	-0.775	-0.410	-0.519	-0.342
Pos	1	0	2	7	3	3	10	2	4	10	1	5	2	3	1	2	3
Neg	11	2	2	3	7	9	2	10	8	2	7	6	10	8	11	10	9
Trend	neg trend	neg trend	pos trend	pos trend	no trend	neg trend	pos trend	neg trend	no trend	pos trend	neg trend	no trend	neg trend	neg trend	neg trend	neg trend	neg trend







**Rennies River (@ Camell Dr) - NF02TM0016**  
**Spearman Rank Correlation Coefficients for Monthly Means**

\* significant at 0.05 level  
 \*\* significant at 0.02 level  
 \*\*\* significant at 0.01 level  
 \*\*\*\* significant at 0.005 level

	CONDL	COLORA	TURB	O2D	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	DOC	PT	NO3NO2	NIT	SID	ALT	AST
January	-0.406	0.434	0.061	0.241	-0.030	-0.479	-0.717*	-0.345	-0.133	-0.091	-0.394	0.470	-0.624	0.079	0.309	0.167	-0.164	-0.207
February	0.091	-0.068	0.236	0.569	0.574	0.109	0.382	-0.078	0.285	0.191	0.291	-0.396	-0.418	0.182	0.455	0.067	-0.564	-0.193
March	0.100	0.141	-0.050	0.233	0.291	0.212	0.350	-0.073	0.500	0.391	0.182	0.089	-0.445	0.509	0.291	0.261	-0.518	0.356
April	0.000	0.351	-0.045	0.331	-0.018	0.079	0.333	0.200	0.126	0.255	0.000	-0.193	-0.629*	0.564	0.273	0.212	-0.041	0.217
May	0.027	0.332	0.100	-0.017	0.214	-0.636	0.167	-0.733*	-0.502	0.555	0.123	-0.471	-0.648*	0.433	-0.127	0.243	-0.261	0.267
June	-0.155	0.548	0.045	0.176	0.164	-0.333	0.363	-0.515	0.042	0.555	-0.027	0.073	-0.536	0.264	0.465	0.845***	0.355	-0.284
July	-0.264	-0.056	0.282	0.240	0.118	-0.273	0.067	-0.406	-0.150	0.212	0.079	0.402	-0.114	0.430	0.273	0.055	0.009	0.126
August	-0.009	0.381	0.314	-0.432	0.005	-0.378	0.167	-0.564	-0.250	0.651*	-0.032	0.361	0.091	0.733*	0.109	0.027	-0.371	
September	-0.590	0.479	0.585	0.110	0.105	-0.691*	-0.236	-0.818***	-0.683	0.027	-0.409	0.516	-0.879***	0.442	0.415	0.364	0.767***	-0.730*
October	-0.522	0.563*	0.294	0.382	0.775***	-0.622*	-0.114	-0.658*	-0.519	0.238	-0.070	0.681**	-0.594*	0.622*	0.517	0.455	0.396	-0.142
November	-0.245	0.716**	0.645*	-0.347	0.500	-0.473	-0.358	-0.456	-0.200	-0.396	-0.200	0.676*	-0.636*	0.736**	0.697*	0.200	-0.182	-0.223
December	0.006	0.565	0.511	-0.371	0.227	-0.152	0.285	-0.433	0.128	0.527	0.369	0.321	-0.688*	0.419	0.248	0.067	0.232	-0.236
Pos	5	10	10	8	10	3	8	1	5	10	6	9	1	12	11	12	5	4
Neg	7	2	2	4	2	9	4	11	7	2	6	3	11	0	1	0	7	8
Trend	no trend	pos trend	pos trend	no trend	pos trend	no trend	no trend	neg trend	no trend	pos trend	no trend	pos trend	neg trend	pos trend	pos trend	pos trend	no trend	no trend

	BAT	BET	CDT	COI	CRT	CUT	FET	HGT	LIT	MINT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	-0.243	-0.052	-0.640	-0.289	-0.260	-0.370	-0.552	-0.481	-0.025	-0.733*	0.221	-0.337	-0.590	-	-0.430	0.019	-0.358
February	0.082	-0.263	-0.240	-0.348	-0.279	-0.014	-0.591	-0.119	0.392	-0.527	0.353	-0.129	-0.434	0.000	0.109	-0.439	-0.055
March	-0.227	-0.323	-0.501	-0.670*	-0.009	-0.137	-0.536	-0.301	0.127	-0.573	0.669*	-0.244	-0.255	-0.866	-0.055	-0.361	-0.473
April	-0.191	-0.060	-0.229	-0.282	0.264	0.424	-0.945	-0.657*	0.280	-0.309	0.156	-0.080	-0.511	0.316	-0.082	0.151	0.064
May	-0.705*	0.178	-0.250	-0.673*	0.218	-0.407	-0.382	-0.487	0.079	-0.745**	0.798***	0.096	-0.274	-0.500	-0.770**	0.056	-0.248
June	-0.491	0.253	0.156	-0.398	0.244	-0.510	-0.218	-0.203	0.377	-0.645*	0.244	0.492	-0.206	-0.600	-0.573	0.097	0.032
July	-0.527	0.000	0.267	-0.623*	0.383	0.538	-0.191	0.271	0.082	-0.847***	0.633*	0.713**	-0.294	-	-0.482	0.435	-0.041
August	-0.055	0.598	0.025	-0.206	0.594	0.382	0.300	0.110	0.352	-0.682*	0.353	0.299	-0.348	-0.316	-0.509	0.307	-0.036
September	-0.636*	0.543	0.000	-0.739**	0.182	0.497	0.144	0.841***	0.050	-0.559	0.760***	-0.007	-0.078	0.258	-0.760***	0.220	0.676**
October	-0.654**	0.385	-0.403	-0.795***	-0.360	0.174	-0.115	-0.138	0.050	-0.874***	0.201	-0.285	-0.420	-0.775	-0.760***	-0.003	-0.208
November	-0.527	-0.282	-0.708*	-0.576	-0.157	-0.024	-0.297	-0.293	-0.436	-0.721*	0.066	-0.080	-0.409	-0.775	-0.358	-0.215	-0.588
December	-0.300	-0.255	-0.523	-0.519	0.368	0.128	-0.594	-0.438	-0.036	-0.316	0.389	-0.470	-0.419	-0.775	-0.382	0.156	-0.012
Pos	1	6	4	0	7	6	2	3	9	0	12	4	0	3	1	8	3
Neg	11	6	8	12	5	6	10	9	3	12	0	8	12	7	11	4	9
Trend	neg trend	no trend	no trend	neg trend	no trend	no trend	neg trend	no trend	pos trend	neg trend	pos trend	no trend	neg trend	no trend	neg trend	no trend	no trend





**Quidi Vidi Outdoor - NF02ZM0015**  
**Spearman Rank Correlation Coefficients for Monthly Means**

\* significant at 0.05 level  
 \*\* significant at 0.02 level  
 \*\*\* significant at 0.01 level  
 \*\*\*\* significant at 0.005 level

	CONDL	COLORA	TURB	O2D	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January	-0.552	0.462	0.091	0.036	-0.115	-0.608	-0.633	-0.723*	-0.150	-0.152	-0.432	0.634	-0.455	0.721*	0.455	0.296	0.115	-
February	-0.200	-0.180	0.333	0.542	-0.006	-0.321	-0.083	-0.310	0.183	-0.055	-0.188	-0.267	-0.527	0.164	0.418	0.167	-0.273	0.118
March	-0.065	0.179	0.228	-0.203	0.382	0.309	0.217	-0.139	0.233	0.636*	0.218	0.128	-0.573	0.555	0.182	0.152	-0.682*	0.722
April	0.045	0.193	-0.132	0.611	0.118	0.321	0.183	0.491	0.200	0.500	-0.027	-0.023	-0.645*	0.563	0.409	-0.067	-0.109	-0.026
May	0.273	0.186	0.327	0.176	0.485	0.152	0.100	-0.225	0.167	0.755***	0.273	-0.480	-0.468	0.518	0.770**	0.261	-0.118	0.275
June	-0.139	-0.006	0.042	0.168	-0.267	-0.233	0.381	-0.469	0.238	0.541	-0.067	0.261	-0.273	0.265	0.527	0.758**	0.176	0.000
July	-0.214	0.056	0.491	0.323	0.400	-0.224	0.083	-0.503	-0.250	0.552	0.018	0.336	-0.418	-0.036	0.636*	-0.188	-0.064	0.452
August	-0.245	0.313	0.510	0.500	0.323	-0.600	-0.083	-0.600	-0.326	0.318	-0.436	0.306	-0.036	0.891***	0.139	-0.588	0.000	0.522
September	-0.573	0.660*	0.405	0.298	0.330	-0.736**	-0.333	-0.727**	-0.588	-0.027	-0.409	0.365	-0.118	-0.109	0.359	0.182	-0.073	-0.701
October	-0.313	0.630*	0.270	-0.092	0.530	-0.476	-0.118	-0.510	-0.255	0.448	-0.154	0.674**	-0.182	0.438	0.839***	0.413	0.369	-0.311
November	-0.755***	0.618*	0.162	-0.756***	-0.200	-0.791***	-0.638	-0.709**	-0.079	-0.492	-0.809***	0.756***	-0.524	0.855***	0.636	0.673*	-0.018	0.535
December	0.067	0.757**	0.455	0.240	0.665*	-0.318	-0.345	-0.565	0.152	-0.018	0.045	0.600	-0.636	0.377	0.770**	0.564	-0.045	-0.668
Pos	3	10	11	9	8	3	5	1	6	7	4	9	0	10	12	9	4	7
Neg	9	2	1	3	4	9	7	11	6	5	8	3	12	2	0	3	8	4
Trend	no trend	pos trend	pos trend	no trend	no trend	no trend	no trend	neg trend	no trend	no trend	no trend	pos trend	neg trend	pos trend	pos trend	no trend	no trend	no trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	-0.661*	-0.591	-0.778**	-0.604	-0.468	-0.451	-0.665*	0.038	0.061	-0.665*	0.241	0.133	-0.775**	-0.258	-0.770**	-0.308	-0.721*
February	-0.442	-0.168	-0.798***	-0.349	-0.381	0.105	-0.576	-0.381	0.285	-0.527	0.256	-0.457	-0.201	-0.775	-0.345	-0.060	-0.273
March	-0.273	-0.736**	-0.820***	-0.860***	0.425	-0.096	-0.918***	0.332	-0.041	-0.515	0.714**	0.398	-0.670*	0.000	-0.109	-0.306	-0.500
April	-0.127	-0.201	-0.127	-0.590	0.318	0.229	-0.327	-0.082	0.291	-0.382	0.506	0.085	-0.207	0.775	-0.036	0.030	0.014
May	-0.245	0.014	0.048	-0.310	0.343	-0.233	-0.309	-0.276	0.182	-0.500	0.746**	0.135	-0.569	-0.600	-0.218	0.020	-0.251
June	-0.273	0.721*	0.362	-0.171	0.443	0.122	-0.152	0.261	0.354	-0.527	0.222	0.526	0.012	0.000	-0.857***	0.470	-0.079
July	-0.691*	0.490	0.751**	-0.538	0.272	0.000	-0.200	0.448	0.187	-0.700*	0.707*	0.687*	-0.178	-0.694	-0.655*	0.315	-0.410
August	-0.700*	0.671*	0.173	-0.563	0.477	-0.037	-0.218	0.025	-0.059	-0.573	0.809***	0.000	-0.037	-0.316	-0.700*	0.302	-0.319
September	-0.745**	0.500	0.179	-0.433	0.441	0.293	0.000	0.807***	0.114	-0.360	0.287	-0.108	-0.225	-0.258	-0.764***	-0.085	0.091
October	-0.629*	0.629*	0.067	-0.356	0.600*	0.399	0.385	0.149	0.091	-0.456	0.261	0.158	-0.064	-0.949	-0.731***	0.499	0.258
November	-0.718**	0.433	0.516	0.133	-0.052	0.061	0.200	-0.239	-0.518	-0.576	0.864***	-0.061	-0.104	-0.632	-0.717*	-0.446	-0.624
December	-0.655*	-0.327	-0.607	-0.526	0.303	-0.406	-0.407	0.110	0.201	-0.733*	-0.046	-0.642	-0.630	-0.775	-0.394	0.094	-0.600
Pos	0	7	7	1	9	7	3	8	9	0	11	8	1	3	0	7	3
Neg	12	5	5	11	3	5	9	4	3	12	1	4	11	9	12	5	9
Trend	neg trend	no trend	no trend	neg trend	no trend	no trend	neg trend	no trend	no trend	neg trend	pos trend	no trend	neg trend	no trend	neg trend	no trend	no trend

**Raymond Brook- NF02ZM0017**  
**Spearmen Rank Correlation Coefficients for Monthly Means**

\* significant at 0.05 level  
 \*\* significant at 0.02 level  
 \*\*\* significant at 0.01 level  
 \*\*\*\* significant at 0.005 level

	CONDL	COLORA	TURB	QZD	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January	0.075	0.590	0.067	-0.133	-0.183	0.500	0.000	0.300	-0.407	0.133	0.183	0.469	-0.033	-0.339	-0.226	0.071	0.251	-0.671
February	0.564	0.074	0.401	0.214	0.297	0.648*	0.383	0.571	-0.653	0.006	0.552	-0.217	-0.617	-0.709*	-0.300	0.267	-0.468	-0.632
March	-0.018	-0.370	0.515	0.538	0.745**	0.277	-0.133	0.227	-0.733*	-0.515	0.139	-0.602	-0.115	-0.377	0.030	0.333	-0.705*	-0.655
April	0.036	0.158	0.165	0.565	-0.030	0.000	0.115	0.178	-0.548*	-0.239	0.264	0.063	-0.389	0.461	0.469	-0.049	-0.072	-0.261
May	0.006	0.007	-0.140	0.479	0.370	-0.033	0.548	-0.083	-0.665	0.176	0.292	-0.286	-0.450	0.062	0.059	0.335	-0.261	-0.267
June	0.364	-0.060	0.032	-0.075	0.009	0.286	0.233	0.201	-0.444	-0.378	0.473	0.000	0.182	0.416	0.364	-0.026	-0.192	0.200
July	0.333	-0.310	0.144	0.429	-0.357	-0.143	-0.143	-0.214	-0.811*	0.262	0.214	-0.491	-0.524	0.109	-0.143	-0.721	-0.395	-0.791
August	0.126	-0.293	-0.378	-0.520	0.176	-0.091	0.133	-0.224	-0.233	0.287	0.560	-0.137	-0.245	0.549	-0.077	-0.395	-0.420	-0.111
September	0.050	0.356	0.567	0.402	0.450	0.383	-0.214	0.555	-0.643	-0.433	-0.317	0.367	0.033	0.420	0.857**	0.383	0.433	-0.283
October	0.133	0.368	0.483	-0.110	0.147	0.109	-0.191	0.512	-0.382	0.042	0.147	0.575	0.123	0.187	0.770**	0.345	0.119	0.014
November	0.042	-0.098	0.262	-0.401	0.413	-0.042	-0.017	-0.098	-0.377	0.164	0.285	-0.079	-0.091	0.157	0.183	-0.483	-0.624	-0.683
December	0.000	0.715*	-0.042	0.263	-0.297	0.297	0.183	0.333	-0.519	-0.389	0.552	0.726*	-0.140	-0.130	0.183	0.250	-0.079	-0.849*
Pos	11	7	9	7	8	8	7	8	0	7	11	6	3	8	8	7	3	2
Neg	1	5	3	3	4	4	5	4	12	5	1	6	9	4	4	5	9	10
Trend	pos/trend	no trend	pos/trend	no trend	no trend	no trend	no trend	no trend	neg/trend	no trend	pos/trend	no trend	neg/trend	no trend	no trend	no trend	neg/trend	neg/trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	0.192	0.548	0.548	0.606	0.251	-0.218	0.050	-0.474	0.621	-0.100	0.289	0.251	0.251	-0.894	0.444	0.529	0.034
February	-0.252	0.696*	0.696*	-0.465	-0.404	-0.251	0.442	-0.115	-0.222	-0.539	0.696*	-0.436	-0.143	-0.258	0.579	-0.674***	-0.565
March	-0.783**	0.522	-0.519	0.261	0.261	0.067	-0.467	-0.165	-0.610	-0.455	0.522	0.110	-0.044	-0.632	0.030	-0.443	-0.286
April	0.006	0.513	-0.095	-0.164	0.030	-0.098	0.074	-0.401	-0.643*	-0.102	0.178	0.218	-0.276	0.894	-0.216	0.248	0.095
May	-0.173	0.696*	0.646	0.203	0.696*	-0.505	-0.261	-0.266	-0.329	-0.345	0.696*	0.358	0.315	0.012	0.014	0.014	-0.517
June	-0.404	0.775***	0.775***	-0.191	0.577	0.119	0.000	-0.166	0.083	-0.455	0.775***	0.583	183.000	-0.632	0.300	-0.059	-0.358
July	-0.072	0.577	0.126	-0.791*	-0.401	-0.491	-0.452	-0.359	-0.530	-0.333	-0.109	0.171	-0.700	-0.258	-0.205	-0.696	-0.561
August	-0.651*	0.518	0.102	-0.092	-0.496	0.198	-0.294	-0.404	-0.366	-0.364	0.563	0.139	0.051	0.775	-0.210	-0.148	0.074
September	0.283	0.548	0.365	-0.494	0.548	0.100	0.517	-0.183	0.254	0.200	0.548	0.783**	0.396	0.333	0.280	0.301	
October	-0.028	0.480	0.512	-0.030	0.000	-0.060	0.224	-0.194	0.287	-0.063	0.389	-0.198	-0.047	-0.775	0.116	0.167	-0.039
November	-0.573	0.522	-0.598	0.548	-0.548	-0.294	-0.600	-0.507	-0.748*	-0.584	0.548	0.183	0.548	-0.775	-0.017	-0.106	-0.762*
December	-0.105	0.522	0.348	-0.018	0.091	-0.569	0.000	-0.436	0.424	-0.183	0.518	0.274	0.128	-0.447	0.167	0.217	-0.033
Pos	3	12	11	2	9	4	6	0	5	1	11	10	7	2	8	6	4
Neg	9	0	1	10	3	8	6	12	7	11	1	2	5	8	4	6	6
Trend	neg/trend	pos/trend	pos/trend	neg/trend	pos/trend	no trend	no trend	neg/trend	no trend	neg/trend	pos/trend	pos/trend	no trend	neg/trend	no trend	no trend	no trend

**Mobile River- NF02ZM0018**  
**Spearman Rank Correlation Coefficients for Monthly Means**

. significant at 0.05 level  
 .. significant at 0.02 level  
 \*\*\* significant at 0.01 level  
 \*\*\*\* significant at 0.005 level

	CONDL	COLORA	TURB	O2D	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January	-0.267	0.358	0.250	0.611	-0.250	-0.133	-0.333	-0.227	-0.278	-0.150	-0.150	0.377	0.142	-0.876****	-0.067	-0.024	0.300	-0.632
February	-0.119	-0.049	0.476	0.025	0.000	0.012	-0.286	0.000	-0.230	-0.214	-0.310	-0.143	-0.333	0.371	-0.238	0.429	-0.096	-0.316
March	-0.191	-0.573	0.582	0.291	0.800****	0.378	-0.297	0.211	-0.632	0.291	0.064	-0.706*	-0.703*	-0.524	-0.345	0.661*	-0.897*	-0.231
April	-0.180	0.312	-0.067	-0.068	0.151	-0.167	-0.117	-0.192	0.227	0.167	-0.050	0.186	-0.418	-0.546	0.333	0.119	0.283	0.414
May	-0.234	-0.018	0.477	0.276	0.300	0.367	-0.200	-0.188	-0.519	0.561	0.167	-0.310	-0.259	-0.251	0.517	0.071	-0.383	0.655
June	0.180	-0.164	0.414	-0.182	0.357	0.541	-0.071	-0.091	0.214	0.464	0.036	0.072	-0.569	-0.223	0.357	-0.496	0.214	-0.884
July	-0.267	0.219	0.700*	-0.091	-0.283	-0.142	-0.200	-0.390	0.008	0.533	-0.251	-0.117	0.033	0.730*	0.500	0.276	0.183	-0.278
August	-0.066	0.523	-0.429	0.414	-0.036	-0.179	-0.071	-0.667	-0.414	0.571	-0.357	0.179	-0.107	0.535	0.250	0.214	0.383	-0.256
September	-0.226	0.787**	0.231	0.283	-0.261	0.091	0.139	0.232	-0.763**	0.139	-0.043	0.584	0.065	-0.303	0.770*	0.624	0.527	0.540
October	0.226	0.908****	0.717*	0.333	-0.317	0.400	-0.017	0.400	-0.370	0.133	-0.100	0.867****	0.201	-0.091	0.714	0.786*	0.767*	-0.156
November	-0.669*	0.309	0.842****	-0.164	0.243	-0.316	-0.669*	-0.407	-0.828**	0.024	-0.394	0.146	-0.413	-0.034	-0.101	0.063	-0.164	-0.621
December	-0.333	0.295	0.690	0.048	-0.084	-0.143	-0.524	0.229	-0.036	0.494	-0.119	0.252	-0.143	-0.100	-0.107	0.178	0.000	-
Pos	2	8	10	8	6	6	6	11	3	10	3	8	4	3	7	10	8	3
Neg	10	4	2	4	6	6	6	7	9	2	9	4	8	9	5	2	4	8
Trend	neg trend	no trend	pos trend	no trend	no trend	no trend	neg trend	no trend	neg trend	pos trend	neg trend	no trend	no trend	neg trend	no trend	pos trend	no trend	no trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MINT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	-0.136	-	0.000	-0.618	-0.764*	-0.306	-0.700*	-0.866*	-0.183	-0.133	-	-0.137	-0.220	-0.894	-0.167	0.367	-0.017
February	0.024	-	0.247	-0.753**	0.135	-0.018	-0.333	-0.878	-0.173	-0.381	-0.218	-0.289	-0.862**	0.000	0.012	-0.651	-0.578
March	-0.434	0.500	0.500	-0.129	0.548	0.008	-0.117	-0.053	-0.224	-0.855****	0.500	0.225	-0.364	-0.775	0.447	-0.419	-0.645*
April	0.168	-	-	-0.391	0.000	-0.555	-0.450	0.184	0.410	-0.383	0.000	0.311	-0.182	0.775	0.100	-0.261	0.245
May	-0.276	-	0.104	-0.391	0.000	-0.555	-0.450	0.184	-0.146	-0.700*	-	0.220	-0.183	0.258	0.067	-0.638	-0.845**
June	-0.180	-	0.408	-0.668	-0.177	-0.564	-0.321	-0.555	0.315	-0.321	0.408	-0.089	0.225	-0.316	0.468	0.134	-0.036
July	0.050	0.548	-	-0.355	-0.289	-0.368	0.067	-0.436	0.520	-0.467	0.548	0.000	-0.587	-	-0.220	0.365	-0.329
August	-0.180	-	-0.355	-0.741	-0.778	-0.327	-0.500	0.213	0.670	-0.750	-	-0.374	-0.927**	0.775	-0.500	0.335	0.360
September	0.396	-	-0.418	-0.472	0.000	0.389	0.139	0.289	0.013	-0.552	0.174	0.570	0.153	0.632	0.024	0.467	0.565
October	0.433	-0.411	0.639	-0.402	-0.359	0.085	0.171*	0.356	0.730*	-0.517	0.274	0.505	-0.256	0.775	0.385	0.287	0.600
November	-0.595	-	-0.290	0.009	0.000	-0.135	-0.317	-0.845**	-	-0.600	-	-0.139	-0.529	-0.775	-0.301	-0.488	-0.546
December	-0.323	-	-	-0.551	-0.490	-0.618	-0.393	-0.828	0.378	-0.714	-	-0.478	-0.073	-0.775	-0.429	-0.077	-0.432
Pos	5	6	2	5	4	4	3	4	7	0	6	6	2	6	7	6	4
Neg	7	3	10	6	8	8	9	8	5	12	1	6	10	5	5	6	8
Trend	no trend	no trend	neg trend	no trend	no trend	no trend	neg trend	no trend	no trend	neg trend	pos trend	no trend	neg trend	neg trend	no trend	no trend	no trend

**Seal Cove River- NF02ZM0019**  
**Spearmen Rank Correlation Coefficients for Monthly Means**

\* significant at 0.05 level  
 \*\* significant at 0.02 level  
 \*\*\* significant at 0.01 level  
 \*\*\*\* significant at 0.005 level

	CONDL	COLORA	TURB	O2D	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST	
January	0.143	-0.026	0.143	0.376	-0.048	0.357	-0.024	0.143	-0.156	0.381	0.119	0.048	-0.156	-0.275	0.119	-0.536	-0.190	0.258	
February	0.048	0.109	0.575	-0.193	0.286	-0.071	-0.085	0.119	-0.036	0.036	-0.085	0.024	-0.381	-0.347	0.333	-0.250	0.286	-0.775	
March	0.767*	-0.290	0.483	0.244	0.317	0.383	0.617	0.728*	0.194	0.267	0.733*	-0.667	-0.467	-0.268	0.067	0.333	-0.569	-0.447	
April	0.500	0.356	-0.067	-0.067	-0.067	0.367	0.300	0.410	0.117	0.427	0.733*	-0.075	-0.333	-0.578	0.571	0.071	-0.494	-0.414	
May	0.024	0.160	0.143	0.333	0.000	-0.119	0.024	0.012	-0.146	0.333	0.214	0.168	-0.826*	-0.577	0.065	0.929**	0.000	0.577	
June	0.405	0.060	-0.263	-0.160	-0.443	0.275	0.190	0.310	0.431	0.714	0.167	0.192	0.048	0.245	-0.143	0.857*	0.190	-0.289	
July	-0.214	0.111	0.679	-0.327	-0.179	-0.357	-0.286	-0.250	-0.234	-0.250	-0.214	-0.464	-0.414	0.668	0.286	0.071	0.071	-	
August	0.270	0.273	0.607	0.643	0.143	-0.036	-0.429	-0.324	-0.527	-0.321	-0.536	0.000	-0.144	0.059	0.179	0.214	0.321	0.258	
September	-0.595	0.563	0.667	0.361	-0.119	-0.429	-0.667	-0.503	-0.566	0.262	-0.405	0.500	0.238	0.094	0.366	-0.065	0.357	0.000	
October	-0.283	0.606	0.733*	0.117	-0.060	0.100	-0.450	0.017	-0.532	0.167	-0.267	0.417	0.063	0.109	0.214	-0.263	0.617	0.000	
November	-0.733*	0.175	0.183	-0.153	0.017	0.075	-0.733*	-0.350	-0.063	-0.250	-0.733*	0.050	-0.567	0.420	-0.143	-0.190	-0.233	-0.224	
December	-0.548	0.461	0.476	-0.144	-0.048	-0.429	-0.619	-0.357	-0.506	-0.048	-0.405	-0.205	0.192	-0.217	0.072	-0.357	-0.190	-0.354	
Pos	7	10	10	5	5	6	4	7	3	8	5	8	4	4	6	6	6	7	5
Neg	5	2	2	7	7	6	8	5	9	4	7	4	8	6	6	2	6	5	6
Trend	no trend	pos trend	pos trend	no trend	no trend	no trend	no trend	no trend	neg trend	no trend	no trend	no trend	no trend	no trend	pos trend	no trend	no trend	no trend	no trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MINT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	0.168	-	-0.577	0.544	0.430	-0.476	0.452	-0.828	0.196	-0.024	-0.577	0.436	-0.558	-0.632	0.143	0.220	-0.071
February	0.167	-	-	0.064	-0.549	-0.371	0.429	-0.828	-0.442	0.455	-0.577	-0.736	-0.545	0.000	-0.024	-0.401	0.024
March	0.268	-	-	0.040	-0.104	-0.479	-0.617	-0.866*	-0.452	-0.067	-	0.411	-0.557	-0.316	0.748*	-0.639	-0.017
April	0.209	-	-	0.261	0.506	-0.299	0.042	-0.873**	0.328	0.300	0.000	-0.137	-0.128	0.775	0.298	0.390	-0.085
May	0.036	-	0.247	0.041	-0.630	-0.530	-0.072	-0.094	0.195	0.071	-	0.247	-0.327	0.775	0.065	0.000	-0.635
June	0.036	-	-	0.430	-0.064	-0.515	0.085	-0.866*	0.448	0.143	-	-	0.171	-0.258	0.167	0.441	0.310
July	0.071	-	0.408	-0.289	-0.600	-0.218	-0.107	0.169	-0.206	0.464	0.408	-0.802*	0.019	-0.632	-0.214	0.374	-0.286
August	-0.679	-	-	0.289	-0.374	-0.595	0.143	-0.169	0.036	-0.143	-	-0.099	-0.535	-	-0.143	0.000	0.775
September	0.036	-	0.247	0.651	0.694	-0.143	0.190	-0.279	0.060	-0.119	-0.577	0.109	0.096	-0.775	-0.563	-0.063	0.209
October	-0.051	-	0.311	0.477	-0.465	0.060	0.667	0.867*	0.468	0.267	-0.207	-0.393	-0.369	-0.884	0.017	-0.046	0.451
November	-0.441	-	-0.274	-0.472	-0.805*	-0.494	-0.381	-0.060	-0.436	-0.262	-	-0.495	-0.788*	-0.632	-0.286	-0.701	-0.554
December	-0.659	-	0.082	0.661	-0.116	-0.655	0.393	-0.878	0.126	0.179	-	-0.060	-0.132	-0.775	-0.270	0.231	-0.559
Pos	8	5	10	3	3	1	8	2	7	7	2	4	3	3	6	7	5
Neg	4	2	2	9	9	11	4	10	5	5	4	7	9	8	6	5	7
Trend	no trend	no trend	pos trend	neg trend	neg trend	neg trend	no trend	neg trend	no trend	no trend	no trend	no trend	neg trend	no trend	no trend	no trend	no trend

**Northwest Brook- NF02ZN0002**  
**Spearman Rank Correlation Coefficients for Monthly Means**

\* significant at 0.05 level  
 \*\* significant at 0.02 level  
 \*\*\* significant at 0.01 level  
 \*\*\*\* significant at 0.005 level

	CONDL	COLORA	TURB	O2D	PHL	CAD	NAD	MGD	KD	SOAIC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January	-0.442	0.924***	-0.024	0.143	-0.079	-0.100	-0.167	0.333	-0.133	0.224	-0.455	0.353	0.092	-0.356	0.438	-0.767*	-0.030	0.334
February	-0.267	0.458	0.055	0.060	0.134	-0.188	-0.370	-0.176	-0.541	-0.201	-0.248	0.267	-0.544	0.073	0.333	0.467	-0.358	-
March	0.778*	-0.053	0.812**	-0.277	0.217	0.209	0.500	0.798*	-0.042	0.326	0.767*	-0.628	-0.567	-0.118	0.008	0.310	-0.450	-0.884
April	0.203	0.589*	0.146	0.419	-0.154	0.169	0.321	0.470	0.224	0.459	0.681**	-0.077	-0.198	0.547	0.329	-0.308	-0.379	0.035
May	-0.095	0.591	0.381	0.252	-0.167	-0.335	-0.048	0.048	-0.410	0.381	-0.095	0.065	-0.524	0.000	0.266	0.857*	0.108	0.577
June	0.460	-0.265	0.200	-0.218	0.350	0.444	0.350	0.536	0.000	0.350	0.750*	-0.367	0.367	0.260	-0.083	0.533	-0.504	-0.083
July	-0.483	0.101	0.494	0.643	-0.483	-0.524	-0.500	-0.262	-0.709	-0.119	-0.238	0.363	0.192	0.164	0.517	0.117	0.250	-
August	-0.091	0.006	0.283	0.554	0.321	-0.033	-0.450	0.067	-0.360	0.371	0.067	-0.127	-0.152	0.078	0.309	0.067	-0.273	0.498
September	0.270	0.544	0.639	-0.256	-0.196	-0.178	-0.174	0.238	-0.277	0.230	-0.351	0.563	0.457	-0.276	0.832*	0.186	0.525	-0.707
October	-0.403	0.406	0.077	0.050	-0.203	-0.142	-0.297	-0.050	-0.477	0.196	-0.009	0.523	-0.007	0.213	0.500	0.145	0.308	-0.169
November	-0.683	0.743*	0.678	-0.667	-0.233	-0.586	-0.300	-0.678	-0.836***	0.050	-0.393	0.184	-0.343	0.087	0.238	-0.310	0.385	-0.577
December	-0.690	0.709	0.595	-0.443	-0.450	-0.667	-0.700*	-0.510	-0.430	0.133	-0.650	0.476	0.452	0.000	0.214	-0.714	0.117	-0.507
Pos	4	10	12	7	4	3	3	7	2	10	4	8	5	9	11	8	6	4
Neg	8	2	0	5	8	9	9	5	10	2	8	4	7	3	1	4	6	6
Trend	no trend	pos trend	pos trend	no trend	no trend	neg trend	neg trend	no trend	neg trend	pos trend	no trend	no trend	no trend	pos trend	pos trend	no trend	no trend	no trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	UT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	-0.432	0.510	0.522	0.400	0.406	-0.049	0.103	-0.620	-0.285	-0.219	0.406	0.510	-0.156	-0.632	-0.321	0.449	-0.561
February	-0.267	0.522	0.522	-0.488	0.105	-0.279	-0.406	-0.183	0.000	-0.491	0.522	0.062	0.321	-	-0.261	0.426	-0.103
March	0.303	-	-0.548	-0.257	-	-0.192	-0.600	-0.913***	0.324	-0.083	-	-0.137	-0.351	-0.775	0.661	-0.040	0.168
April	0.335	0.513	0.513	0.102	0.812****	-0.322	-0.357	-0.396	-0.614*	0.000	0.291	0.669**	-0.631*	0.894	0.217	0.324	-0.003
May	-0.558	-	0.247	0.176	0.247	-0.527	-0.048	-0.694	-0.125	-0.167	-	0.436	-0.412	-	-0.214	0.620	-0.639
June	0.730*	0.548	0.548	0.284	0.207	-0.559	-0.633	-0.443	-0.447	-0.467	0.548	0.207	-0.434	-0.258	0.075	0.347	-0.633
July	-0.655	0.725*	0.725*	0.391	0.149	-0.358	0.083	0.066	-0.202	0.277	0.725*	0.129	0.053	0.258	-0.427	0.615	0.202
August	-0.129	-	-	0.707*	-0.121	-0.335	-0.079	-0.866***	-0.424	-0.067	-0.764**	0.522	-0.631	0.775	0.055	-0.432	0.309
September	0.406	0.577	-	0.510	-0.082	-0.345	0.420	-0.060	0.112	0.384	0.252	0.038	0.270	-	0.090	0.664	0.612
October	-0.113	0.585	0.202	-0.470	-0.046	-0.082	-0.048	0.044	0.004	-0.270	0.648*	0.038	0.190	-0.775	-0.102	-0.207	-0.102
November	-0.870****	-	-	0.274	0.412	-0.012	0.310	-0.866*	-0.274	-0.548	-0.577	0.252	-0.218	-0.632	-0.762*	0.344	-0.313
December	-0.351	-	-	0.175	-	-0.667	0.238	-0.866*	0.365	0.095	-	-	0.498	-0.316	-0.693	0.261	-0.286
Pos	4	7	7	9	7	0	5	2	5	4	7	10	5	3	5	9	4
Neg	8	0	1	3	3	12	7	10	7	8	2	1	7	6	7	3	8
Trend	no trend	pos trend	pos trend	pos trend	no trend	neg trend	no trend	neg trend	no trend	no trend	pos trend	pos trend	no trend	no trend	no trend	pos trend	no trend







**Northeast River- NF0ZZK0005**  
**Spearman Rank Correlation Coefficients for Monthly Means**

- \* significant at 0.05 level
- \*\* significant at 0.02 level
- \*\*\* significant at 0.01 level
- \*\*\*\* significant at 0.005 level

	CONDL	COLORA	TURB	OZD	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January	-0.292	0.683*	-0.127	0.185	-0.116	-0.553	-0.033	-0.438	0.034	-0.103	-0.067	0.394	-0.164	-0.688*	0.115	-0.452	0.158	0.655
February	0.189	0.113	0.403	0.429	0.203	0.370	0.083	0.151	-0.210	0.476	0.487	0.268	-0.434	-0.424	0.182	0.210	-0.259	-0.126
March	0.473	-0.295	0.455	0.000	0.357	-0.316	0.267	-0.030	0.157	0.368	0.476	0.261	-0.109	0.051	0.500	-0.228	-0.420	0.183
April	-0.039	0.119	0.039	0.515	-0.039	-0.370	-0.033	-0.304	-0.227	-0.536	0.118	0.446	0.000	-0.114	0.455	0.469	0.182	-0.207
May	0.060	0.399	0.487	-0.474	0.047	-0.645*	0.115	-0.462	0.321	0.081	0.434	0.116	-0.435	0.185	0.427	0.264	0.168	0.171
June	0.073	0.428	0.433	-0.132	0.255	0.050	0.115	-0.018	0.146	-0.127	0.109	0.345	-0.036	0.020	0.479	-0.036	-0.091	0.204
July	4	5	5	4	4	2	4	1	4	3	5	6	1	3	6	3	3	4
August	2	1	1	2	2	4	2	5	2	3	1	0	5	3	0	3	3	2
September	no trend	pos trend	pos trend	no trend	no trend	no trend	no trend	neg trend	no trend	no trend	pos trend	pos trend	neg trend	no trend	pos trend	no trend	no trend	no trend
October	no trend	pos trend	pos trend	no trend	no trend	no trend	no trend	neg trend	no trend	no trend	pos trend	pos trend	neg trend	no trend	pos trend	no trend	no trend	no trend
November	no trend	pos trend	pos trend	no trend	no trend	no trend	no trend	neg trend	no trend	no trend	pos trend	pos trend	neg trend	no trend	pos trend	no trend	no trend	no trend
December	no trend	pos trend	pos trend	no trend	no trend	no trend	no trend	neg trend	no trend	no trend	pos trend	pos trend	neg trend	no trend	pos trend	no trend	no trend	no trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MINT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	-0.091	0.522	0.522	0.019	-0.505	-0.171	0.517	0.309	-0.405	0.042	0.522	-0.355	-0.527	0.775	-0.450	-0.032	-0.139
February	-0.074	0.518	0.518	0.107	0.362	-0.179	-0.182	-0.261	-0.452	-0.364	0.518	0.148	-0.307	-	-0.049	-0.047	-0.203
March	0.186	0.518	0.518	0.366	0.122	-0.293	-0.210	-0.494	-0.148	0.070	0.518	0.244	-0.031	0.447	0.281	-0.363	-0.445
April	-0.120	0.565	0.565	0.432	-0.044	-0.147	0.395	0.356	-0.075	0.460	0.565	0.202	-0.236	-0.258	-0.217	0.121	0.371
May	-0.080	0.513	0.513	0.006	0.258	-0.269	0.209	-0.030	-0.416	0.187	0.342	0.771****	-0.058	0.775	-0.316	0.287	0.305
June	0.196	0.500	0.500	0.228	-0.560	0.142	0.273	-0.324	-0.682*	-0.176	0.435	-0.241	-0.457	-	-0.036	-0.407	-0.166
July	2	6	6	6	3	2	4	2	0	4	6	4	0	3	1	2	2
August	4	0	0	0	3	4	2	4	6	2	0	2	6	1	5	4	4
September	no trend	pos trend	pos trend	pos trend	no trend	no trend	no trend	no trend	neg trend	no trend	pos trend	pos trend	neg trend	no trend	neg trend	no trend	no trend
October	no trend	pos trend	pos trend	pos trend	no trend	no trend	no trend	no trend	neg trend	no trend	pos trend	pos trend	neg trend	no trend	neg trend	no trend	no trend
November	no trend	pos trend	pos trend	pos trend	no trend	no trend	no trend	no trend	neg trend	no trend	pos trend	pos trend	neg trend	no trend	neg trend	no trend	no trend
December	no trend	pos trend	pos trend	pos trend	no trend	no trend	no trend	no trend	neg trend	no trend	pos trend	pos trend	neg trend	no trend	neg trend	no trend	no trend

Pipers Hole River- NF02ZH0001  
 Spearman Rank Correlation Coefficients for Monthly Means

. significant at 0.05 level  
 .. significant at 0.02 level  
 ... significant at 0.01 level  
 .... significant at 0.005 level

	CONDL	COLORA	TURB	CZD	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January	-0.975****	0.585	-0.260	-	-0.479	-0.812****	-0.980****	-0.740**	-0.509	-0.755**	-0.620	0.095	0.055	-0.489	-0.232	0.286	-	-
February	-0.152	0.626*	0.451	-	0.194	-0.269	0.000	-0.073	0.401	-0.295	-0.061	0.277	0.260	-0.414	0.246	0.167	-	-0.655
March	-0.530	0.148	0.550	-	-0.248	-0.289	-0.285	-0.547	-0.167	-0.646	-0.430	0.214	0.183	-0.398	-0.110	0.257	-	-0.134
April	0.479	0.000	-0.965	-	-0.175	0.385	0.587	0.168	0.000	0.275	0.467	0.400	0.443	0.420	0.779*	0.522	-	-0.655
May	0.076	0.182	-0.271	-	-0.271	-0.269	-0.301	-0.336	-0.017	0.621	0.214	0.108	0.204	0.170	-0.031	-0.345	-	-0.581
June	-0.030	0.131	-0.579*	-	0.277	0.113	0.257	0.344	0.420	0.122	-0.100	-0.005	-0.248	0.170	0.548	-0.243	-	-0.866**
July	0.138	0.310	-0.078	-	-0.039	-0.216	-0.340	-0.296	-0.239	0.030	-0.187	0.313	0.011	0.337	0.452	0.050	-	-0.837***
August	-0.508	0.389	-0.148	-	-0.120	-0.542	-0.744*	-0.406	-0.308	-0.448	-0.700*	0.483	-0.061	-0.146	0.398	-0.143	-	-0.612
September	-0.651*	0.662*	-0.332	-	-0.371	-0.709*	-0.865***	-0.610	0.326	-0.583	-0.515	0.429	0.427	0.640	0.340	-0.679	-	-0.655
October	-0.625*	0.678**	0.025	-	-0.716**	-0.681*	-0.458	-0.407	-0.652*	-0.723*	-0.580	0.293	0.300	0.253	0.285	0.179	-	-0.612
November	0.201	-0.005	-0.571	-	-0.245	0.347	0.534	0.126	-0.180	0.732*	0.413	-0.132	0.105	0.646	0.165	0.353	-	0.581
December	-0.268	-0.228	-0.184	-	-0.481	-0.380	0.136	-0.067	-0.184	-0.639	0.008	-0.507	0.026	0.681	0.343	0.800	-	-

Pos 4 8 2 9 3 10 2 3 4 5 6 7 8 9 10 1 1  
 Neg no trend pos trend neg trend neg trend neg trend neg trend neg trend pos trend pos trend pos trend pos trend no trend no trend neg trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
February	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
March	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
April	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
June	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
July	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
August	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
September	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
October	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
November	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
December	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Pos 4 8 2 9 3 10 2 3 4 5 6 7 8 9 10 1 1  
 Neg no trend pos trend neg trend neg trend neg trend neg trend neg trend pos trend pos trend pos trend no trend no trend neg trend

**Rattle Brook - NF02ZG0025**  
**Spearmen Rank Correlation Coefficients for Monthly Means**

. significant at 0.05 level  
 \*\* significant at 0.02 level  
 \*\*\* significant at 0.01 level  
 \*\*\*\* significant at 0.005 level

	CONDL	COLORA	TURB	OXD	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January	0.405	-0.126	0.132	0.127	-0.619	0.143	0.310	0.381	-0.073	0.357	0.405	-0.675	-0.476	-0.238	-0.287	-0.179	-0.071	-0.447
February	0.283	0.183	0.417	-0.209	-0.050	0.033	0.000	0.150	-0.301	-0.167	0.167	-0.633	-0.544	0.117	0.293	-0.238	-0.586	-0.577
March	0.517	-0.104	0.300	-0.101	0.167	-0.533	-0.217	-0.243	-0.483	-0.218	0.033	-0.267	-0.067	-0.218	-0.350	-0.143	-0.450	-0.447
April	0.250	-0.071	0.117	0.234	0.063	0.127	0.167	0.293	-0.218	0.343	0.617	-0.500	-0.477	-0.113	0.160	0.024	-0.733*	-0.414
May	-0.333	0.206	0.048	0.530	0.286	-0.060	-0.439	0.285	-0.626	0.048	-0.024	-0.190	-0.347	-0.115	0.500	0.414	-0.214	0.000
June	0.168	0.394	0.494	0.503	-0.188	0.132	-0.048	0.364	-0.464	0.286	0.119	-0.190	-0.143	0.344	0.048	0.234	-0.204	-0.866
July	0.090	0.286	0.703	0.821*	-0.643	-0.071	-0.396	-0.607	-0.607	-0.607	-0.607	0.250	0.179	-0.223	0.464	0.321	0.286	-
August	-0.793*	0.563	0.643	0.214	-0.214	-0.321	-0.857*	-0.679	-0.818*	-0.679	-0.667	0.357	0.536	-0.453	-0.250	-0.321	0.357	-0.258
September	-0.429	-0.218	0.120	0.065	0.429	-0.563	-0.286	-0.431	-0.147	0.072	-0.238	-0.381	-0.500	0.327	-0.429	-0.776*	-0.238	-
October	-0.063	0.026	0.450	0.156	0.100	0.176	0.100	0.402	-0.891	0.283	-0.268	0.092	-0.550	-0.158	-0.250	-0.190	0.183	-0.707
November	-0.017	-0.286	0.183	-0.361	-0.101	0.059	-0.100	-0.119	-0.130	-0.084	0.050	-0.483	-0.467	0.350	0.048	-0.476	-0.533	0.000
December	0.350	0.422	0.563	-0.024	0.200	0.552	-0.109	0.311	-0.478	0.000	0.483	0.106	0.477	-0.136	0.452	-0.214	-0.017	-0.707
Pos	7	7	12	8	6	7	4	7	0	7	7	4	3	4	7	4	3	2
Neg	5	5	0	4	6	5	8	5	12	5	5	8	9	8	5	8	9	8
Trend	no trend	no trend	pos trend	no trend	no trend	no trend	no trend	no trend	neg trend	no trend	no trend	no trend	neg trend	no trend	no trend	no trend	neg trend	neg trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MINT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	0.342	-	-	0.845**	0.126	-0.587	-0.395	-0.213	-0.454	0.262	-0.247	-0.234	-0.600	-0.316	0.476	0.192	-0.347
February	0.160	-	0.137	0.053	-0.730*	0.271	-0.033	-0.848*	0.165	0.300	0.548	-0.388	-0.037	-0.632	0.126	0.026	0.519
March	-0.460	-	-	-0.523	-0.673	-0.838***	-0.217	-0.866*	-0.634	0.200	-	-0.411	-0.726*	-0.632	-0.251	-0.730*	-0.270
April	-0.059	-	-0.137	-0.205	-0.023	-0.540	-0.517	-0.873**	0.239	0.167	0.183	0.160	-0.237	0.632	0.293	0.541	-0.321
May	-0.398	-	0.247	0.247	-0.064	-0.439	0.048	-0.383	-0.521	0.000	-	0.630	-0.664	0.211	-0.317	-0.378	-0.561
June	-0.439	-	-	0.000	0.412	-0.831*	-0.310	-0.866*	-0.399	-0.240	0.247	-0.247	-0.358	-0.632	-0.393	-0.109	-0.442
July	0.179	-	0.408	0.866*	0.408	-0.577	0.286	-0.555	-0.079	0.214	0.204	0.000	-0.259	0.775	0.143	0.837*	-0.216
August	-0.536	-	-	0.791*	-0.299	-0.962***	0.357	-0.828	-0.193	0.464	-0.757	-0.612	-0.802*	0.447	-0.595	-0.309	0.306
September	-0.214	-	-	-0.577	-0.245	-0.371	-0.333	-0.474	-0.235	-0.406	0.220	-0.245	-0.533	0.447	-0.361	-0.736	-0.252
October	-0.051	-	0.274	-0.143	-0.373	-0.131	0.133	-0.279	0.548	0.000	0.274	0.139	-0.488	-0.775	0.276	-0.558	-0.544
November	-0.323	-	-	-0.548	-0.350	-0.168	-0.229	-0.279	-0.577	0.065	-	-0.577	-0.748*	-0.447	-0.061	-0.656**	-0.482
December	0.244	-	-	-0.039	-	-0.358	0.431	-0.449	0.166	0.143	-	-	-0.136	-0.775	0.503	0.109	-0.374
Pos	4	4	6	6	3	1	5	5	4	10	6	4	0	5	6	5	2
Neg	8	8	1	6	8	11	7	12	8	2	2	7	12	7	6	7	10
Trend	no trend	no trend	no trend	no trend	neg trend	neg trend	no trend	neg trend	no trend	pos trend	no trend	no trend	neg trend	no trend	no trend	no trend	no trend

Tides Brook - NF02ZG0024

Spearman Rank Correlation Coefficients for Monthly Means

- . significant at 0.05 level
- .. significant at 0.02 level
- \*\*\* significant at 0.01 level
- \*\*\*\* significant at 0.005 level

	CONDL	COLORA	TURB	QO2	PHL	CAD	NAD	MGD	KD	SQ4IC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January	-0.309	0.678*	0.564	-0.587	-0.164	-0.480	-0.267	-0.297	-0.588	0.030	-0.067	0.485	-0.334	-0.591	0.406	0.350	0.079	-0.283
February	-0.236	0.735*	0.638	-0.733*	-0.225	-0.612	-0.370	-0.037	-0.545	-0.248	-0.018	0.142	-0.652*	0.476	0.529	0.633	-0.273	-0.088
March	-0.745**	0.213	0.527	0.203	-0.188	-0.467	-0.726*	-0.742*	-0.766**	-0.778**	-0.717*	0.310	-0.018	-0.505	-0.139	0.050	-0.345	0.000
April	-0.504	0.014	-0.129	-0.079	0.430	0.018	-0.406	0.169	-0.889****	-0.065	0.083	0.250	-0.514	-0.398	0.284	0.375	-0.457	-0.610
May	-0.267	0.791**	0.402	-0.086	-0.119	0.084	-0.233	-0.176	-0.683	0.243	-0.092	-0.048	-0.433	-0.528	0.450	0.714	-0.550	0.621
June	0.095	-0.172	0.467	0.747*	-0.596	-0.167	-0.024	0.156	-0.563	-0.048	0.214	-0.419	-0.143	-0.110	0.286	0.571	0.310	-0.289
July	-0.370	0.298	-0.517	-0.107	-0.225	-0.417	-0.048	0.218	-0.795*	0.233	0.150	0.423	0.261	-0.079	0.709*	-0.371	0.103	0.620
August	-0.382	-0.127	0.079	-0.240	0.018	-0.101	-0.300	0.142	-0.800**	0.639	-0.134	-0.219	0.097	-0.430	0.297	0.413	-0.486	0.579
September	-0.794***	0.652*	0.602	0.076	-0.612	-0.479	-0.778**	-0.266	-0.748**	0.055	-0.515	0.515	0.333	-0.576	0.433	0.248	0.600	0.433
October	-0.462	0.296	0.379	0.329	0.363	0.141	-0.314	0.159	-0.798***	-0.004	0.364	0.358	-0.401	-0.392	-0.045	0.028	-0.126	0.018
November	-0.176	0.468	0.400	0.126	-0.109	-0.326	-0.250	0.042	-0.439	0.033	-0.400	0.151	0.109	0.289	0.333	0.056	0.133	0.000
December	-0.131	0.779**	0.559	0.111	-0.473	-0.708*	-0.370	0.078	-0.751**	-0.461	0.160	-0.249	0.437	-0.027	0.034	-0.269	-0.225	-
Pos	1	10	10	6	3	3	0	7	0	6	5	8	5	2	10	10	5	7
Neg	11	2	2	6	9	9	12	5	12	6	7	4	7	10	2	2	7	4
Trend	neg trend	pos trend	pos trend	no trend	neg trend	neg trend	neg trend	no trend	neg trend	no trend	no trend	no trend	no trend	no trend	pos trend	pos trend	no trend	no trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	-0.496	-	0.430	-0.127	-0.283	0.636	0.000	0.000	0.055	0.115	0.646	-0.127	-0.116	-0.775	-0.321	-0.208	-0.255
February	-0.421	-	0.068	0.355	-0.701*	-0.157	0.030	-0.873**	0.277	-0.030	0.418	-	0.026	-	-0.671*	0.097	0.073
March	-0.770**	-	-0.522	0.021	-0.749**	-0.820***	0.418	-0.756*	-0.587	0.127	0.406	-0.738*	-0.444	-0.316	-0.583	-0.415	-0.333
April	-0.382	-0.231	0.278	0.235	0.235	-0.360	-0.236	-0.471	-0.139	-0.390	0.356	0.235	-0.173	0.632	0.033	-0.238	-0.617*
May	-0.383	-	0.104	0.456	-	-0.431	0.633	-0.652	0.165	-0.483	0.000	0.388	-0.346	-0.258	-0.067	-0.488	-0.783**
June	-0.119	-	0.504	0.247	-0.539	-0.539	0.238	-0.694	0.400	0.310	-	0.082	-	-0.316	-0.108	0.913***	-0.277
July	-0.669*	-	0.355	0.236	-0.185	0.018	0.442	-0.081	0.110	-0.462	0.275	0.631	-0.330	-0.775	-0.498	0.296	-0.495
August	-0.673*	-	0.174	-0.754**	-0.698*	0.139	-0.266	0.110	-0.164	-0.062	-0.062	-0.522	-0.559	0.775	-0.348	-0.459	-0.485
September	-0.031	-	-0.190	0.024	0.152	-0.483	0.152	-0.483	0.546	0.467	0.853***	0.406	-0.396	0.447	-0.806**	0.511	0.286
October	-0.118	-	0.000	-0.155	-0.066	0.156	0.448	0.119	0.065	0.170	0.238	-0.006	-0.151	-0.775	-0.110	-0.307	-0.365
November	0.209	-	0.274	0.137	-0.412	-0.169	0.167	-0.279	0.449	0.190	-0.252	0.577	-0.307	-0.632	-0.263	-0.436	0.371
December	0.194	-	0.058	0.187	-	-0.528	0.606	-0.361	-0.017	0.506	0.416	-0.286	-0.108	-0.775	-0.656	0.758*	0.125
Pos	2	0	5	10	3	2	11	3	7	7	9	6	6	1	3	1	5
Neg	10	1	2	2	6	10	1	9	5	5	2	5	10	8	11	5	4
Trend	neg trend	no trend	pos trend	pos trend	neg trend	neg trend	pos trend	neg trend	no trend	no trend	pos trend	no trend	no trend	no trend	neg trend	pos trend	no trend





South West Brook (@Baie Verte)- NF02YM0004  
 Spearman Rank Correlation Coefficients for Monthly Means

. significant at 0.05 level  
 \*\* significant at 0.02 level  
 \*\*\* significant at 0.01 level  
 \*\*\*\* significant at 0.005 level

	CONDL	COLORA	TURB	CZD	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January	-0.667	0.373	0.017	-0.551	0.150	-0.500	-0.833***	-0.667	-0.661	-0.700*	-0.717*	-0.450	-0.361	-0.285	0.233	0.238	-0.159	-0.894
February	-0.095	0.273	0.084	-0.443	-0.333	0.048	-0.262	0.012	-0.461	-0.143	-0.500	0.036	-0.262	0.133	0.333	0.536	0.289	-0.211
March	-0.079	0.151	0.721*	0.030	0.018	-0.225	-0.127	0.051	-0.462	-0.382	-0.042	-0.480	-0.030	-0.049	0.200	0.617	-0.297	-0.772
April	0.067	-0.295	0.602	0.108	0.285	0.248	-0.250	-0.109	-0.460	-0.382	0.067	-0.790**	-0.262	-0.067	0.300	0.300	-0.673*	-0.433
May	-0.619	-0.165	0.410	0.142	-0.119	-0.500	-0.429	-0.500	-0.476	-0.467	-0.467	-0.550	-0.417	-0.051	0.381	-0.429	-0.483	0.354
June	-0.333	-0.393	0.109	0.095	-0.100	-0.310	-0.843	-0.357	-0.096	-0.745*	-0.333	-0.233	-0.467	-0.199	0.183	-0.238	-0.345	-0.741
July	-0.200	0.153	0.283	0.393	-0.383	-0.683	-0.714	-0.690	-0.133	-0.200	0.000	0.000	0.067	-0.037	0.517	0.000	0.100	0.289
August	-0.217	0.068	0.417	0.185	0.183	-0.133	-0.183	-0.267	-0.678	-0.383	-0.233	0.100	-0.063	-0.184	0.476	0.619	0.117	-
September	-0.667	0.542	0.527	0.000	-0.156	-0.667	-0.683	-0.658	-0.714	-0.571	-0.680	0.687	0.024	-0.277	0.643	0.405	0.687	-0.707
October	-0.183	0.127	0.517	-0.262	0.500	-0.333	-0.167	-0.577	-0.483	-0.217	-0.317	-0.250	-0.583	-0.084	0.381	-0.479	-0.134	0.205
November	-0.467	0.343	0.450	-0.638	0.300	-0.550	-0.433	-0.650	-0.454	-0.167	-0.500	-0.283	0.117	0.695	0.381	-0.361	-0.083	0.224
December	-0.595	0.140	0.095	-0.655	0.144	-0.167	-0.643	-0.431	-0.311	-0.524	-0.762*	-0.240	-0.524	0.371	0.286	0.429	-0.071	-0.447
Pos	1	9	12	7	7	2	0	2	0	0	1	4	3	3	11	8	4	4
Neg	11	3	0	5	5	10	12	10	12	12	11	8	9	9	1	4	8	7
Trend	neg trend	pos trend	pos trend	no trend	no trend	neg trend	neg trend	neg trend	neg trend	neg trend	neg trend	no trend	neg trend	neg trend	pos trend	no trend	no trend	no trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MINT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	-0.740*	0.548	-	-0.027	-0.402	-0.360	-0.293	-0.652	-0.725*	-0.183	-0.411	-0.124	-0.514	-0.775	-0.650	-0.260	-0.243
February	-0.419	-	0.522	0.421	0.128	-0.205	0.405	-0.866*	-0.772*	-0.143	-0.577	0.027	-0.788*	0.258	-0.048	-0.587	-0.602
March	-0.603	0.701*	-	-0.396	-0.119	0.549	-0.285	-0.110	-0.623	-0.503	-0.646	-0.358	-0.098	-0.632	-0.231	-0.026	-0.148
April	-0.345	0.701*	0.522	-0.502	0.031	-0.323	-0.079	-0.110	-0.205	-0.467	-0.398	-0.111	-0.132	-0.354	0.201	-0.193	-0.472
May	-0.577	0.548	-	-0.440	0.143	-0.092	0.150	-0.873**	-0.752*	0.050	-0.725*	0.525	-0.437	-0.775	-0.500	0.095	-0.506
June	-0.387	0.725*	-	0.026	-0.581	-0.094	-0.233	0.236	-0.518	-0.117	-0.687	-0.287	0.079	0.258	-0.167	-0.254	-0.333
July	0.517	0.725*	-	-0.298	0.262	-0.254	0.067	-0.013	-0.219	-0.159	-0.645	0.328	-0.221	-	-0.083	-0.143	0.135
August	-0.611	0.548	-	-0.051	-0.261	-0.544	-0.017	-0.866*	-0.570	-0.267	-0.630	0.126	-0.395	0.949	-0.293	-0.160	0.067
September	-0.262	-	-	-0.130	0.537	-0.415	0.524	-0.791*	0.170	-0.048	0.252	0.503	-0.546	-	-0.667	0.170	0.240
October	-0.343	0.548	-	0.016	0.368	0.156	-0.167	-0.498	-0.113	0.190	-	0.122	0.062	-0.775	-0.381	0.565	-0.333
November	-0.317	-	-	0.179	-0.419	-0.084	0.095	-0.496	-0.290	0.190	-0.756*	-0.306	-0.712	-0.707	-0.714	-0.421	0.060
December	-0.407	-	-	0.018	-0.036	0.270	-0.036	-0.828	0.318	-0.296	-0.612	-0.126	-0.378	0.258	-0.143	-0.225	-0.037
Pos	1	8	-	5	6	3	5	1	2	3	1	6	2	4	1	3	4
Neg	11	0	-	7	6	9	7	11	10	9	10	6	10	6	11	9	8
Trend	neg trend	pos trend	-	no trend	no trend	neg trend	no trend	neg trend	neg trend	neg trend	neg trend	no trend	neg trend	no trend	neg trend	neg trend	no trend

Indian Brook- NF02YM0001

Spearmen Rank Correlation Coefficients for Monthly Means

- significant at 0.05 level
- significant at 0.02 level
- significant at 0.01 level
- significant at 0.005 level

	CONDL	COLORA	TURB	OZD	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	FD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January	-0.876***	0.740***	-0.280	0.600	0.365	-0.432	-0.456	-0.484	-0.579	-0.842***	-0.756***	-	0.433	0.751***	-0.416	-0.077	-0.135	-	-
February	-0.418	0.283	-0.298	-	-0.191	-0.115	-0.505	-0.024	0.146	-0.488	-0.967***	-	-0.108	0.037	-0.451	-0.239	0.943**	-	-
March	-0.611*	0.520	0.171	-0.429	-0.487	-0.053	-0.360	-0.145	0.169	-0.728**	-0.627*	-	0.368	0.210	-0.206	0.046	0.524	-	-0.612
April	0.198	0.577	0.335	-	0.298	0.198	0.224	-0.055	0.482	0.198	-0.657	-	-0.949	0.214	0.000	-0.050	1.000***	-	-
May	-0.759***	0.187	0.555	0.400	-0.033	-0.635*	-0.553	-0.832***	-0.023	-0.622	-0.598	-	0.571	0.547	-0.608	-0.239	0.571	-	-
June	-0.333	0.419	0.835**	-	0.128	-0.347	-0.429	-0.347	-0.018	-0.673	-0.476	-	0.200	0.233	0.454	-0.132	1.000***	-	-
July	-0.536	0.396	0.000	0.500	-0.334	-0.464	-0.741	-0.180	-0.613	-0.378	-0.821*	-	0.551	0.655	0.818*	0.143	0.500	-	-
August	-0.723*	0.716	0.457	-	-0.410	-0.502	-0.540	-0.614	-0.477	-0.536	-0.711*	-	0.703	0.519	0.352	0.469	0.406	-	-
September	-0.286	0.168	-0.306	-0.500	0.180	-0.036	-0.436	-0.310	0.286	-0.582	-0.286	-	-0.100	0.168	-0.054	-0.132	-0.400	-	-
October	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
November	-0.773***	0.448	-0.015	-	0.205	-0.647	-0.730***	-0.296	0.683**	-0.549	-0.557	-	-0.049	0.579	0.161	0.140	-0.735	-	-
December	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Pos 1 10 6 3 5 5 1 1 0 5 1 0 0 6 10 5 4 7 0  
 Neg 9 0 4 2 5 9 9 9 10 5 9 10 10 4 0 5 5 3 7 1  
 Trend neg trend pos trend no trend no trend neg trend neg trend neg trend neg trend neg trend no trend no trend no trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MINT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
February	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
March	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
April	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
June	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
July	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
August	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
September	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
October	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
November	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
December	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Pos  
 Neg  
 Trend



Exploits (of Millertown Dam)- NF02Y00107

Spearman Rank Correlation Coefficients for Monthly Means

- . significant at 0.05 level
- \*\* significant at 0.02 level
- \*\*\* significant at 0.01 level
- \*\*\*\* significant at 0.005 level

	CONDL	COLORA	TURB	O2D	PHL	CAD	NAD	MGD	KD	SOAIC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST	
January	-0.543	-0.076	0.085	0.071	0.643	-0.400	-0.900	-0.900	0.447	-0.667	-0.619	-0.058	-0.571	-0.206	-0.405	-0.429	-0.771	-0.354	
February	-1.000	0.578	0.571	0.432	-0.429	-1.000	-0.943**	-1.000	-0.412	-0.929***	-0.667	-0.486	-0.857*	-0.306	-0.371	-0.348	-0.771	-0.316	
March	-0.667	-0.183	0.268	0.376	0.080	-0.829	-0.900	-0.638	-0.667	-0.778	-0.134	-0.683	-0.385	-0.363	0.142	-0.524	-0.310	-0.954***	
April	-0.946***	0.472	-0.443	0.541	-0.333	-0.859*	-0.943**	-0.706	-0.290	-0.946***	-0.318	0.337	0.092	-0.072	0.402	-0.595	-0.393	-0.621	
May	-1.000	-0.218	0.036	0.714	0.036	-1.000	-1.000	-0.400	0.316	-0.750	-0.857*	-0.200	-0.055	0.126	-0.107	-0.600	-0.100	-0.447	
June	-0.929***	0.265	-0.024	0.725	0.204	-0.943**	-0.943**	-0.348	-0.736	-0.476	-0.500	-0.071	-0.452	0.024	-0.275	-0.667	-0.429	0.088	
July	-0.847*	0.468	0.509	0.616	0.919**	-0.943**	-0.829	-0.771	-0.377	-0.657	-0.200	0.309	-0.071	-0.754	0.029	-0.250	-0.536	0.383	
August	-0.900	0.267	-0.679	-0.071	0.429	-0.900	-0.900	-0.205	-0.975	-0.929***	-0.955***	-0.900	-0.036	-0.218	-0.786*	-0.700	0.224	.	
September																			
October																			
November																			
December																			

Pos 0 5 5 7 6 6 0 0 0 2 0 0 0 2 1 2 3 0 0 1 2  
 Neg 8 3 3 1 2 8 8 8 8 6 8 8 6 7 6 5 8 8 7 5 5  
 Trend neg trend no trend no trend pos trend pos trend neg trend neg trend neg trend neg trend neg trend neg trend no trend

	BAT	BET	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	-0.771	0.655	0.383	0.621	0.000	-0.869*	0.029	-0.414	0.169	0.628	0.655	-0.714	-0.894	-1.000	-0.393	-1.000	
February	-0.600	0.655	-0.338	-0.207	0.339	-0.771	-0.714	0.334	-0.131	0.621	-0.169	-0.600	-	-0.771	-0.655	-0.943**	
March	-0.571	0.504	-0.577	0.000	0.179	-0.548	-0.238	0.184	-0.126	-0.738*	0.065	-0.214	-0.643	-	-0.892***	-0.491	
April																	
May																	
June																	
July	-0.750	.	-0.791*	0.204	-0.158	-0.090	0.107	-0.866*	-0.579	-0.607	-0.158	-0.396	-0.643	0.000	-0.893**	-0.356	
August	-0.900	0.707	-0.354	0.000	0.707	-0.975	-0.100	-0.354	0.577	-0.900	0.577	0.289	-0.700	0.866	-1.000	0.866	
September	-0.500	.	-0.267	-0.408	0.134	-0.865*	0.500	-0.866*	-0.206	0.000	0.118	0.118	-0.429	-	-0.964***	-0.677	
October	-0.429	0.791*	-0.668	0.772	0.541	-0.600	0.086	-0.433	0.029	-0.657	0.207	-0.030	-0.714	-	-0.812	0.507	
November	-0.900	-0.354	.	.	-0.258	-0.400	0.400	-0.866	0.632	-0.900	-0.105	0.000	-1.000	-0.316	-0.800	0.316	
December																	

Pos 0 5 1 5 6 6 0 0 5 2 4 0 6 4 0 2 0 4 0  
 Neg 8 1 6 2 2 8 8 3 6 4 8 2 4 8 2 4 8 4 8  
 Trend neg trend pos trend neg trend no trend pos trend neg trend no trend neg trend no trend neg trend no trend

**Exploits (@ Aspen Brook)- NF02Y00020**  
**Spearman Rank Correlation Coefficients for Monthly Means**

.. significant at 0.05 level  
 \* significant at 0.02 level  
 \*\*\* significant at 0.01 level  
 \*\*\*\* significant at 0.005 level

	CONDL	COLORA	TURB	OZD	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January	-0.867****	0.636	0.390	-0.407	0.006	-0.482	-0.81*	-0.359	-0.843**	-0.770**	-0.942****	0.420	-0.442	-0.098	0.321	0.238	0.026	0.224
February	0.179	-0.908****	0.122	0.500	0.619	0.144	0.179	0.360	0.546	-0.095	-0.405	0.643	-0.287	0.156	0.095	0.600	-0.162	-0.866
March	0.381	0.149	0.233	0.116	-0.441	-0.190	0.714	0.755*	0.390	-0.650	-0.393	-0.333	-0.383	-0.142	0.024	-0.857*	-0.810	-0.949
April	0.267	-0.258	0.335	-	0.377	0.267	-0.008	-0.226	-0.203	-0.276	-0.059	-0.711*	-0.190	-0.145	0.667	0.238	0.067	-0.638
May	-0.667	-0.174	0.517	0.524	-0.051	-0.238	-0.611	-0.337	-0.551	-0.683	-0.569	-0.267	-0.460	0.192	0.433	-0.714	-0.285	-0.878
June	-0.850**	0.040	0.050	-0.075	-0.183	-0.503	-0.571	-0.400	-0.267	-0.917****	-0.678	0.156	-0.633	0.400	0.033	-0.214	-0.098	-
July	-0.745*	0.453	0.091	0.084	0.042	-0.650	-0.351	0.052	-0.420	-0.879****	-0.433	0.008	-0.152	-0.141	0.345	0.060	-0.067	-0.648
August	0.055	0.758	0.084	0.522	0.151	0.603	0.276	0.857***	-0.658	-0.682*	-0.440	0.669*	-0.136	-0.400	0.515	0.267	0.467	-0.414
September	-0.802*	0.596	0.583	0.524	0.117	-0.695	-0.755*	-0.268	-0.158	-0.750*	-0.733*	0.347	0.276	-0.092	-0.024	-0.524	0.060	-0.866
October	-0.903****	0.769**	0.444	-0.700*	0.806***	-0.477	-0.533	-	-0.628	-0.650	-0.350	0.726*	-0.452	-0.077	0.100	-0.283	-0.479	0.778
November	-0.565	0.535	-0.152	0.061	0.685*	-0.236	-0.394	0.111	-0.843****	-0.802***	-0.468	0.176	-0.535	0.110	0.100	0.502	-0.298	-0.247
December	-0.711*	0.480	0.294	0.299	0.402	-0.636	-0.924****	-0.681	-0.514	-0.782**	-0.770**	-0.051	-0.297	0.019	0.176	-0.048	0.218	-
Pos	4	9	11	7	9	3	3	5	2	0	0	8	1	5	11	6	5	2
Neg	8	3	1	4	3	9	9	6	10	12	12	4	11	7	1	6	7	8
Trend	neg trend	pos trend	pos trend	no trend	pos trend	neg trend	neg trend	no trend	neg trend	neg trend	neg trend	no trend	neg trend	no trend	pos trend	no trend	no trend	neg trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	-0.828**	-	-0.137	-0.091	-0.111	-0.753*	-0.017	-0.677	-0.359	-0.350	-0.046	-0.373	-0.633	-	-0.883****	-0.018	-0.867****
February	-0.821*	-	-0.312	-0.802*	-0.571	-0.964****	-0.071	-0.134	-0.906**	-0.643	-0.394	-0.225	-0.893**	-	-0.865*	-0.709	-0.893**
March	-0.595	-	0.148	-0.218	-0.393	-0.390	0.786	-0.031	-0.434	-0.667	-0.069	-0.544	-0.590	-0.500	-0.619	-0.509	-0.429
April	-0.033	-	0.692	0.538	0.420	0.200	0.217	-0.495	0.211	0.150	0.365	0.376	0.050	0.707	0.252	0.366	0.167
May	-0.550	-	0.693	0.183	-0.119	-0.285	0.000	-0.677	-0.781*	-0.100	0.518	-0.598	-0.433	-0.894	-0.820**	-0.775*	-0.483
June	-0.929****	-	0.873**	0.126	0.646	-0.838**	0.048	-0.109	-0.234	-0.814*	0.630	0.452	-0.857**	-0.316	-0.892**	0.378	-0.690
July	-0.950****	-	0.274	0.548	0.009	-0.444	0.100	-0.677	-0.387	-0.267	0.091	-	-0.950****	-0.258	-0.783**	0.027	-0.867****
August	-0.867****	-	0.000	0.284	-0.395	-0.675*	0.745**	-0.513	0.290	0.500	-0.075	0.548	-0.678	-0.258	0.429	-0.113	-0.833****
September	-0.810*	-	-0.289	0.577	-0.592	-0.643	0.524	-0.866**	-0.109	0.060	-0.077	-0.464	-0.723	-0.707	-0.639	-0.464	-0.762*
October	-0.721*	-	0.435	0.000	0.080	-0.410	-0.167	-0.535	0.369	-0.400	-0.040	-0.009	-0.778*	0.258	-0.552	0.312	-0.800**
November	-0.721*	-	-0.550	-0.289	-0.730*	-0.746*	-0.233	-0.837***	-0.584	-0.483	0.183	-0.234	-0.916****	-0.738	-0.667	-0.586	-0.717*
December	-0.750*	-	0.319	0.725*	0.082	-0.838**	0.143	-0.183	-0.694	-0.143	0.577	-0.103	-0.476	0.258	-0.548	-0.151	-0.635
Pos	0	8	8	8	5	1	7	0	3	3	6	3	1	3	2	4	1
Neg	12	4	4	4	7	11	5	12	9	9	6	8	11	7	10	8	11
Trend	neg trend	no trend	no trend	no trend	no trend	neg trend	no trend	neg trend	neg trend	neg trend	no trend	no trend	neg trend	no trend	neg trend	no trend	neg trend

**Exploits (@ Grand Falls)- NF02YO0001**  
**Spearman Rank Correlation Coefficients for Monthly Means**

\* significant at 0.05 level  
 \*\* significant at 0.02 level  
 \*\*\* significant at 0.01 level  
 \*\*\*\* significant at 0.005 level

	CONDL	COLORA	TURB	O2D	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January	-0.795****	0.310	-0.604*	-0.600	0.392	-0.910****	-0.696*	-0.818****	-0.589	-0.825****	-0.328	-0.412	-0.025	0.714**	0.876**	-0.119	-	-0.401
February	-0.487	0.287	-0.371	-	0.366	-0.036	-0.126	-0.393	-0.054	-0.750	-0.393	-0.778*	0.204	0.299	0.395	0.000	-	-0.775
March	-0.487	0.429	-0.633**	-0.450	0.178	-0.296	-0.297	-0.332	0.038	-0.824****	-0.662**	0.284	-0.186	-0.093	0.520	-0.373	-	-0.749*
April	-0.072	0.837*	0.509	-	0.582	0.198	0.355	0.429	0.179	-0.309	-0.377	-0.500	0.400	-0.036	-0.143	0.638	-	-0.866
May	-0.658*	0.378	0.101	-0.500	-0.109	-0.695	-0.712*	-0.800**	-0.100	-0.723*	-0.767****	0.190	0.077	0.574	0.059	-0.240	-	-0.546
June	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
July	-0.795****	0.420	-0.360	0.500	0.631*	-0.421	-0.667*	-0.111	-0.255	-0.821****	-0.712**	0.353	0.074	0.222	0.881****	-0.012	-	-0.764*
August	-0.821*	0.775	-0.928*	-	0.808*	-0.030	-0.638	0.314	-0.029	-0.754	-0.778	0.679	-0.580	0.541	0.847*	-0.609	-	-0.775
September	-0.545	0.687*	-0.665*	-	-0.046	-0.017	-0.879****	-0.150	-0.712*	-0.764****	-0.706*	0.383	-0.346	0.374	0.255	-0.181	-	0.245
October	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
November	-0.857**	0.602	-0.455	-	0.170	-0.756*	-0.872**	-0.850**	-0.101	-0.854**	-0.970****	-0.429	0.025	-0.036	-0.162	-0.200	-	-
December	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Pos	0	9	2	1	7	1	1	2	2	0	0	5	5	6	7	2	-	1
Neg	9	0	7	3	2	8	8	7	7	9	9	4	4	3	2	7	-	7
Trend	neg trend	pos trend	neg trend	neg trend	pos trend	neg trend	neg trend	neg trend	neg trend	neg trend	neg trend	no trend	no trend	no trend	pos trend	neg trend	-	neg trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
February	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
March	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
April	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
June	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
July	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
August	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
September	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
October	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
November	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
December	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Pos  
 Neg  
 Trend



**Gander River (@ Appleton)- NF02YQ0030**  
**Spearman Rank Correlation Coefficients for Monthly Means**

. . . significant at 0.05 level  
 . . significant at 0.02 level  
 \* . . significant at 0.01 level  
 \* . . . significant at 0.005 level

	CONDL	COLORA	TURB	O2D	PHL	CAD	NAD	MGD	KD	SOAIC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST	
January																			
February	-0.429	-0.116	0.393	-0.205	-0.144	-0.116	-0.203	-0.759	-0.213	-0.357	-0.036	-0.631	-0.571	-0.180	0.179	-0.321	-0.286	-0.845	
March																			
April	-0.543	0.837	0.522	0.100	-0.029	-0.714	-0.543	-0.896*	-0.883	-0.870	-0.543	0.232	-0.200	-0.123	0.000	0.261	-0.600	-0.083	
May																			
June	-0.571	-0.045	-0.464	-0.086	0.234	-0.377	-0.203	-0.577	-0.638	-0.500	-0.643	-0.250	0.143	-0.378	-0.486	-0.179	-0.965***	-0.289	
July																			
August	-0.487	-0.134	-0.107	0.174	-0.429	-0.406	-0.486	0.066	-0.068	0.143	0.071	0.250	-0.071	-0.055	0.286	-0.126	-0.286	-0.507	
September																			
October	-0.500	0.599	-0.090	0.657	0.414	0.232	-0.290	-0.314	-0.290	0.714	0.257	-0.216	0.214	-0.232	0.257	-0.306	-0.829*	0.439	
November																			
December	-0.643	-0.060	-0.342	0.714	-0.179	-0.771	-0.371	-0.500	-0.406	-0.144	-0.286	0.509	0.234	-0.216	0.071	-0.342	-0.964***	-0.926*	
Pos	0	2	2	4	2	1	0	1	0	2	2	3	3	0	5	1	0	1	
Neg	6	4	4	2	4	5	6	5	6	4	4	3	3	6	1	5	6	5	
Trend	neg	trend	no trend	no trend	no trend	neg	trend	neg	trend	neg	trend	no trend	no trend	neg	trend	pos	trend	neg	trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT	
January																		
February	-0.054	0.612	0.612	0.316	0.045	-0.396	-0.383	-0.433	-0.510	-0.214	0.612	-0.342	0.299	-0.775	-0.612	0.433	0.054	
March																		
April	-0.200	.	.	-0.154	0.665	0.794	-0.200	-0.051	-0.926*	-0.486	0.131	-0.928*	-0.507	.	-0.771	0.393	-0.522	
May																		
June	-0.505	0.612	0.612	0.612	0.612	0.473	-0.250	0.188	-0.134	-0.613	0.612	0.000	0.657	.	-0.607	0.791*	0.519	
July																		
August	-0.081	0.612	0.612	0.632	-0.558	0.636	0.286	-0.433	-0.535	0.286	0.144	0.482	0.612	0.775	-0.450	0.577	0.321	
September																		
October	-0.342	0.612	0.612	-0.169	0.655	0.232	-0.086	0.056	-0.309	0.029	0.414	0.261	0.088	.	-0.600	0.828	-0.056	
November																		
December	-0.631	0.612	0.612	0.655	-0.828	-0.771	-0.143	-0.433	-0.926*	-0.638	0.655	-0.783	-0.167	-0.447	-0.829	-0.309	-0.736	
Pos	0	5	5	4	4	4	1	2	0	2	6	3	4	1	0	5	3	
Neg	6	0	0	2	2	2	5	4	6	4	0	3	2	2	6	1	3	
Trend	neg	trend	pos	trend	no trend	no trend	neg	trend	no trend	neg	trend	no trend	no trend	.	neg	trend	pos	trend



**Pound Cove Brook- NF02YR0001**  
**Spearman Rank Correlation Coefficients for Monthly Means**

. significant at 0.05 level  
 \*\* significant at 0.02 level  
 \*\*\* significant at 0.01 level  
 \*\*\*\* significant at 0.005 level

	CONDL	COLORA	TURB	QXD	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January	-0.233	0.237	0.100	-0.408	-0.433	-0.217	-0.183	-0.083	-0.283	-0.050	0.067	-0.233	-0.335	-0.008	0.350	-0.262	-0.133	-0.866
February	0.042	0.775**	0.213	-0.577	-0.333	-0.345	-0.006	-0.079	-0.091	-0.248	0.176	-0.182	-0.482	-0.122	0.333	0.033	-0.328	-0.177
March	-0.127	0.640	0.733*	-0.360	0.055	-0.328	-0.103	-0.288	-0.431	-0.261	0.006	-0.018	-0.370	0.103	0.417	0.017	-0.212	-0.338
April	0.370	0.810***	0.491	-0.075	-0.438	0.006	0.382	0.358	0.448	-0.127	0.426	0.146	-0.442	0.579	0.600	0.042	-0.067	0.158
May	-0.381	0.000	0.826*	0.762*	0.036	-0.524	-0.476	-0.548	-0.217	-0.371	-0.381	-0.524	-0.643	-0.562	-0.286	0.429	-0.587	0.577
June	-0.200	0.244	0.076	0.405	-0.383	-0.479	-0.310	-0.738*	0.144	-0.043	-0.117	0.117	-0.143	-0.115	0.533	0.602	0.167	-0.655
July	0.539	0.265	0.564	0.897***	0.897***	0.234	0.167	0.067	0.200	-0.043	0.358	0.503	0.353	-0.226	0.770**	0.661	0.861*	-0.433
August	-0.383	0.477	0.667	0.183	-0.450	-0.468	-0.517	-0.250	-0.286	-0.467	-0.467	0.681	-0.452	0.028	0.476	0.690	0.533	0.447
September	0.248	0.529	0.564	-0.145	-0.778**	-0.500	-0.643	-0.371	-0.571	0.017	-0.200	0.661*	-0.550	0.522	0.350	0.830***	0.564	0.231
October	-0.433	0.724*	0.724*	0.167	-0.745*	-0.487	-0.385	-0.550	-0.435	-0.483	-0.383	0.450	-0.458	0.139	0.667	-0.310	0.533	0.158
November	-0.109	0.378	0.516	-0.237	-0.601	-0.301	-0.387	-0.066	-0.333	-0.363	0.068	0.000	-0.105	-0.153	0.492	-0.176	-0.224	0.369
December	0.018	0.455	0.231	-0.467	-0.455	-0.083	-0.050	0.133	0.059	-0.430	0.236	0.243	-0.406	0.208	0.527	0.134	-0.261	-0.283

Pos 5 12 12 4 4 2 2 2 3 4 4 1 1 7 8 1 6 11 9 9 5 6  
 Neg 7 0 0 6 6 10 10 10 9 8 8 11 11 4 4 11 6 1 3 7 6  
 Trend no trend pos trend pos trend no trend neg trend neg trend neg trend no trend neg trend neg trend pos trend no trend no trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	0.009	0.153	-	-0.035	-0.213	-0.075	-0.100	-0.598	0.059	-0.200	-	-0.788**	-	-0.258	-0.050	-0.176	-0.159
February	0.135	0.120	0.522	0.426	0.119	-0.068	-0.479	-0.344	-0.188	-0.200	0.522	0.020	0.043	-	-0.006	0.149	-0.036
March	-0.305	0.123	0.225	-0.822***	-0.483	-0.555	0.345	-0.395	-0.085	0.018	-0.078	-0.500	-0.421	-0.632	-0.202	-0.681*	-0.123
April	0.117	0.254	-	-0.216	0.224	0.050	0.455	-0.018	0.000	0.212	-	0.214	-0.239	0.264	0.261	0.290	0.252
May	-0.707	-0.454	-	-0.412	-0.463	-0.095	-0.548	-0.896**	-0.536	-0.216	-	-0.784**	-0.558	-0.258	-0.680	-0.183	-0.766*
June	-0.368	0.026	0.548	-0.303	-0.149	0.252	0.483	-0.038	-0.647	0.243	-0.359	-0.671	-0.479	0.258	-0.517	0.624	0.083
July	0.263	0.280	-	0.165	0.554	0.098	0.806***	-0.034	-0.646	0.745**	-	-0.553	-0.317	-0.738	0.328	0.351	0.036
August	-0.050	0.455	0.023	0.093	-0.638	-0.059	0.093	-0.134	-0.826*	0.033	-0.229	0.044	-0.077	-0.316	-0.409	0.000	0.033
September	0.561	0.562	0.701*	0.591	-0.132	-0.321	0.333	0.218	-0.644	0.535	0.406	-0.013	0.122	-0.707	0.164	0.352	0.098
October	-0.597	0.035	0.274	-0.451	0.281	-0.563	0.429	-0.496	-0.520	-0.048	-	-0.073	-0.643	-0.775	-0.048	0.192	0.317
November	-0.369	-0.135	-	-0.335	-0.067	-0.059	0.061	-0.825**	-0.702*	0.195	-	-0.406	-0.646	-0.525	-0.073	-0.020	-0.538
December	-0.500	0.025	0.522	-0.224	0.067	-0.636	-0.067	-0.408	-0.521	-0.367	-0.091	-0.456	-0.009	-0.775	-0.117	0.274	-0.351

Pos 5 10 7 4 4 5 3 8 8 2 2 7 2 3 2 2 3 8 8 6  
 Neg 7 2 0 6 7 9 9 4 10 10 5 4 9 10 9 9 4 4 6  
 Trend no trend pos trend pos trend no trend neg trend neg trend neg trend neg trend neg trend neg trend no trend no trend

**Terra Nova River (@ Newton Lake)- NF02YS0012**  
**Spearman Rank Correlation Coefficients for Monthly Means**

- . significant at 0.05 level
- .. significant at 0.02 level
- \*\*\* significant at 0.01 level
- \*\*\*\* significant at 0.005 level

	CONDL	COLORA	TURB	Q2D	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST	
January	-0.400	0.166	0.300	-0.190	0.217	-0.450	-0.571	-0.350	-0.424	-0.351	-0.167	-0.633	0.100	-0.159	0.310	0.048	0.142	-0.410	
February	0.017	-0.134	0.661	-0.393	-0.452	-0.033	-0.310	-0.150	-0.719	-0.096	-0.333	-0.500	-0.467	0.289	0.190	-0.321	-0.583	-0.600	
March	-0.323	-0.084	0.060	0.714	0.066	-0.095	-0.500	-0.060	-0.073	-0.095	-0.310	-0.398	-0.095	0.491	-0.071	0.357	-0.228	0.103	
April	-0.857*	0.291	0.679	0.216	-0.214	-0.811*	-0.847*	-0.750	-0.321	-0.429	-0.857*	-0.288	-0.143	0.612	0.252	-0.714	0.071	-0.500	
May	-0.714	0.120	0.929***	-0.714	-0.286	-0.714	-0.357	-0.775	-0.250	-0.250	-0.607	-0.250	-0.107	-0.045	-0.371	-0.321	0.071	1.000***	
June	-0.510	0.256	0.787**	-0.517	-0.200	-0.050	-0.717*	-0.251	-0.863***	-0.510	-0.167	-0.417	-0.550	0.264	-0.167	-0.167	0.067	0.410	
July																			
August																			
September																			
October																			
November																			
December																			
Pos	1	4	6	2	2	0	0	0	0	0	0	0	1	4	3	2	4	3	
Neg	5	2	0	4	4	6	6	6	6	6	6	6	5	2	3	4	2	3	
Trend	neg	neg	pos	neg	no trend	neg	neg	neg	neg	neg	neg	neg	neg	neg	no trend	no trend	no trend	no trend	

	BAT	BET	CDT	COT	CRT	CUJ	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT	
January	0.017	-	0.096	-0.277	0.085	0.243	0.033	-0.393	0.085	0.067	-0.274	-0.034	-0.244	-	-0.259	-0.254	0.333	
February	-0.254	-	-0.071	-0.358	-0.310	-0.042	-0.617	0.556	-0.483	-0.417	0.414	0.104	-0.353	-0.316	-0.276	-0.564	0.167	
March	-0.356	-	0.247	0.218	-0.378	0.024	-0.381	-0.866*	0.209	-0.095	0.000	-0.339	-0.294	0.775	-0.439	0.772*	-0.401	
April	0.036	-	0.577	0.374	0.414	-0.523	0.000	-0.169	-0.382	-0.036	0.200	0.185	-0.598	-0.500	-0.811*	-0.120	-0.741	
May	-0.259	-	0.791*	-0.220	0.000	-0.393	0.306	-0.741	-0.321	-0.071	0.945***	0.273	-0.356	-	-0.393	0.374	-0.306	
June	-0.350	-	0.137	0.154	-0.848**	-0.123	0.361	-0.866*	-0.682	0.500	-0.627	-0.355	-0.847***	-0.707	-0.252	-0.300	-0.759*	
July																		
August																		
September																		
October																		
November																		
December																		
Pos	2	5	3	3	3	2	4	1	2	2	4	3	0	1	0	2	2	
Neg	4	1	3	3	4	4	2	5	4	4	2	3	6	3	6	4	4	
Trend	no trend	pos	neg	no trend	no trend	no trend	no trend	neg	neg	no trend	no trend	no trend	neg	neg	neg	no trend	no trend	





**Terra Nova River (@ E.S. Spencer Bridge)- NF02YS0011**  
**Spearman Rank Correlation Coefficients for Monthly Means**

\* significant at 0.05 level  
 \*\* significant at 0.02 level  
 \*\*\* significant at 0.01 level  
 \*\*\*\* significant at 0.005 level

	CONDL	COLORA	TURB	O2D	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January	-0.406	0.046	-0.139	-0.494	0.079	-0.394	-0.067	-0.382	-0.088	-0.347	-0.333	-0.297	0.274	-0.085	-0.309	-0.159	-0.401	-0.088
February	0.236	0.604	0.685*	-0.479	0.207	0.018	0.370	0.109	0.693*	0.152	0.370	0.505	0.158	0.402	0.450	0.300	0.103	-0.621
March	0.167	0.110	-0.048	0.144	-0.619	-0.310	0.333	-0.518	-0.038	0.238	0.156	-0.455	-0.366	0.467	-0.143	0.429	0.190	-0.354
April	-0.464	0.000	0.373	-0.214	0.018	-0.135	-0.377	-0.171	-0.336	-0.578	0.037	0.383	0.128	-0.232	0.591	-0.547	-0.159	-0.069
May	-0.530	0.638	0.643	-0.310	-0.357	-0.690	-0.548	-0.643	-0.575	-0.838**	-0.833**	0.286	-0.324	-0.125	0.643	-0.143	0.667	0.354
June	-0.663*	0.655*	0.851****	-0.188	-0.073	-0.261	-0.685*	-0.274	-0.348	-0.273	-0.370	0.164	-0.055	0.243	0.350	-0.067	0.139	0.759
July	2	6	4	1	3	1	2	1	1	2	3	4	3	3	4	2	4	2
August	4	0	2	5	3	5	4	5	5	4	3	2	3	3	2	4	2	4
September	no trend	pos trend	pos trend	neg trend	no trend	neg trend	no trend	neg trend	neg trend	no trend	no trend	no trend	no trend	no trend	no trend	no trend	no trend	no trend
October																		
November																		
December																		

Pos  
 Neg  
 Trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	-0.335	0.701*	0.610	0.435	0.140	-0.104	0.042	-0.309	-0.116	-0.505	0.522	0.434	0.000	0.000	-0.333	0.347	-0.042
February	0.748**	0.701*	0.150	0.273	-0.043	0.573	0.709	0.203	0.340	0.782**	-0.067	0.295	-0.119	-0.316	0.430	0.020	0.636
March	-0.073	0.577	0.082	0.065	-0.156	-0.289	0.048	-0.866*	-0.146	-0.143	-0.247	-0.365	-0.025	-0.894	-0.659	0.164	-0.172
April	-0.383	0.858****	0.598	0.206	0.112	-0.066	0.269	0.013	-0.234	0.000	0.520	0.425	-0.303	-0.894	-0.382	0.100	-0.201
May	0.506	.	.	-0.378	-0.365	-0.331	0.548	-0.866*	0.179	0.571	0.507	0.000	-0.501	-0.289	-0.524	0.436	0.012
June	0.298	0.218	-0.202	0.193	0.143	-0.267	0.083	-0.873**	0.319	0.067	0.000	-0.061	-0.305	-0.707	-0.542	0.084	-0.068
July	3	5	4	5	3	1	6	2	3	4	4	4	1	1	1	6	2
August	3	0	1	1	3	5	0	4	3	2	2	2	5	5	5	0	4
September	no trend	pos trend	no trend	pos trend	no trend	neg trend	pos trend	neg trend	no trend	no trend	no trend	no trend	neg trend	neg trend	neg trend	pos trend	no trend
October																	
November																	
December																	

Pos  
 Neg  
 Trend

Bread Cove Brook- NF02YS0010

Spearman Rank Correlation Coefficients for Monthly Means

- significant at 0.05 level
- \*\* significant at 0.02 level
- \*\*\* significant at 0.01 level
- \*\*\*\* significant at 0.005 level

	CONDL	COLORA	TURB	O2D	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	DOC	PT	MO3NO2	NT	SID	ALT	AST		
January	-0.548	0.665**	-0.675	0.066	-0.419	-0.690	-0.476	-0.587	-1.000***	-0.085	0.048	0.347	-0.663	0.061	0.405	-0.214	0.357	0.000		
February	-0.383	0.632	0.618	-0.771	0.036	-0.464	-0.286	-0.429	-0.583	-0.714	-0.071	0.286	0.107	0.018	-0.179	-0.771	-0.018	0.000		
March	0.377	0.245	0.563	-0.417	0.033	0.433	0.350	0.267	-0.197	0.000	0.350	-0.234	0.301	0.377	0.381	0.119	-0.150	-0.707		
April	0.350	0.450	0.773*	0.505	0.092	0.305	0.318	0.163	0.145	-0.150	0.393	0.042	0.183	-0.105	0.214	-0.071	0.301	-0.393		
May	-0.762*	0.342	0.976****	0.214	-0.551	-0.755*	-0.667	-0.771*	-0.255	0.048	-0.429	-0.024	-0.500	0.491	-0.132	0.857*	-0.024	-0.354		
June	-0.295	-0.138	0.370	0.347	-0.398	-0.240	-0.671	-0.358	-0.458	-0.072	-0.659	-0.090	-0.638	0.063	0.355	0.600	0.455	-0.229		
July	-0.429	0.898**	0.636	0.714	-0.252	-0.429	-0.464	-0.324	-0.559	-0.357	-0.214	0.179	0.703	-0.612	0.357	-0.294	0.396	-		
August	-0.500	0.764	0.347	0.671	-0.667	-0.452	-0.500	-0.452	-0.711	-0.357	-0.500	0.429	-0.631	0.382	0.179	-0.536	0.766*	-0.775		
September	-0.720	0.624	0.658	0.210	-0.849***	-0.586	-0.519	-0.510	-0.718*	-0.811**	-0.502	0.244	-0.276	-0.408	-0.036	-0.067	0.527	-0.554		
October	-0.667	0.276	0.083	-0.417	-0.067	-0.533	-0.717*	-0.418	-0.412	-0.617	-0.728*	0.117	-0.717*	-0.158	0.024	-0.548	0.167	0.707		
November	-0.776**	0.411	0.363	0.085	0.228	-0.693*	-0.888****	-0.467	-0.753**	-0.085	-0.544	-0.177	-0.037	0.480	0.042	0.193	-0.448	-0.078		
December	-0.433	0.754*	0.243	-0.275	-0.433	-0.370	-0.683	-0.375	-0.562	-0.500	0.083	0.603	-0.183	0.393	-0.109	0.548	-0.146	0.000		
Pos	2	11	11	8	4	2	2	2	1	2	4	8	4	8	8	5	7	7	4	
Neg	10	1	1	4	8	10	10	10	11	10	8	4	8	4	4	7	5	7	7	
Trend	neg	trend	pos	trend	no	trend	neg	trend	neg	trend	neg	no	trend	no	no	no	no	pos	no	no

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT	
January	-0.500	-	-	-0.056	-0.187	-0.325	0.381	-0.555	0.000	-0.190	0.577	-	-0.327	-0.884	-0.619	0.078	-0.781*	
February	0.071	-	-	0.158	-0.579	0.112	-0.090	0.707	-0.400	0.036	-	-0.401	-0.535	0.000	-0.429	-0.716	-0.250	
March	0.134	-	-0.411	0.346	-0.174	0.218	-0.059	0.056	-0.616	-0.283	0.000	0.104	-0.621	-0.866	0.268	-0.089	0.094	
April	0.429	-	-	-0.525	0.725*	-0.111	0.350	-0.383	0.194	0.300	0.183	0.000	0.137	-0.112	0.417	-0.063	-0.086	
May	-0.533	-	-	-0.082	0.092	-0.238	-0.095	-0.926**	-0.300	-0.167	-	-0.092	0.204	0.258	-0.819	0.395	-0.443	
June	-0.123	-	-	0.317	-0.220	-0.528	-0.283	-0.397	0.038	-0.156	-	-0.242	-0.249	-0.344	-0.311	-0.201	-0.228	
July	-0.109	-	-	0.612	-0.089	-0.519	0.286	-0.169	-0.579	-0.286	-0.408	-0.408	-0.797*	-0.866	-0.564	-0.239	-0.327	
August	-0.167	-	-	-0.655	-0.482	-0.491	-0.238	-0.828	-0.855*	0.167	-0.514	-0.078	-0.514	0.775	-0.405	-0.583	0.060	
September	-0.462	-	0.000	0.510	0.602	-0.439	0.477	-0.650**	-0.318	0.008	0.733*	0.254	-0.069	-0.544	-0.720*	0.448	-0.068	
October	-0.450	-0.411	-0.411	-0.860	-0.516	-0.822*	0.214	-0.694	-0.537	-0.167	-0.536	-0.265	-0.846**	-0.866	-0.524	-0.859**	-0.702	
November	-0.012	-	-	0.160	0.000	-0.009	-0.192	-0.891*	-0.035	-0.206	0.550	0.206	-0.116	-0.725	-0.414	0.000	-0.412	
December	-0.255	-	-	-0.082	0.577	-0.393	0.190	-0.878	-0.013	-0.155	-	0.546	0.409	0.000	-0.299	0.143	0.072	
Pos	3	1	3	6	5	5	6	2	3	4	5	5	3	4	2	5	3	3
Neg	9	1	3	6	7	10	6	10	9	8	3	6	8	8	10	7	9	9
Trend	no	no	no	no	no	neg	no	neg	neg	no	no	no	no	neg	neg	no	no	no

Southwest Brook (@ Terra Nova National Park)- NF02YS0005  
Spearman Rank Correlation Coefficients for Monthly Means

. significant at 0.05 level  
\* significant at 0.02 level  
\*\* significant at 0.01 level  
\*\*\* significant at 0.005 level

	CONDL	COLORA	TURB	OZD	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST	
January	-0.770**	0.308	0.292	-0.321	0.042	-0.370	-0.850***	-0.588	-0.711*	-0.333	-0.321	-0.721*	0.006	-0.500	-0.673*	-0.100	-0.648*	-0.414	
February	-0.233	0.668	0.617	-0.476	0.600	0.067	-0.517	-0.234	-0.143	-0.363	-0.600	-0.939	-0.200	-0.033	-0.335	0.333	-0.479	-0.364	
March	-0.250	0.560	0.745*	-0.527	-0.050	-0.183	-0.400	-0.150	-0.407	-0.025	0.067	-0.250	-0.150	-0.293	0.190	-0.659	-0.527	-0.894	
April	0.091	0.423	0.055	0.850**	0.608	0.273	0.017	0.224	-0.042	-0.224	0.382	-0.128	-0.255	-0.075	0.406	-0.030	-0.405	0.218	
May	0.091	-0.380	0.896***	0.183	-0.073	-0.393	-0.200	-0.402	-0.185	0.024	0.273	-0.547	-0.515	0.270	-0.188	-0.075	-0.736*	-0.120	
June	-0.048	-0.337	0.476	0.802*	-0.190	-0.262	0.048	-0.363	0.429	0.452	0.000	-0.571	0.357	0.709	-0.095	-0.071	-0.524	-0.051	
July	-0.333	-0.306	0.059	0.750	-0.291	-0.567	-0.755	-0.683	-0.790*	-0.353	-0.248	0.382	-0.233	-0.017	0.609*	0.103	0.132	0.577	
August	-0.400	0.477	-0.117	0.571	-0.417	-0.500	-0.200	-0.333	-0.650	-0.533	-0.267	0.820**	-0.600	-	0.571	-0.500	0.762*	0.205	
September	-0.750	0.561	0.679	-0.086	0.073	-0.657	-0.829*	-0.886*	-0.657	-0.393	-0.571	0.214	-0.536	0.099	-0.086	-0.321	0.714	0.632	
October	-0.287	0.332	0.006	-0.611	-0.140	-0.350	-0.429	-0.283	-0.204	-0.283	-0.283	0.224	-0.061	0.574	0.317	-0.667	0.152	-0.665	
November	-0.176	0.389	0.624	-0.231	0.345	-0.188	-0.309	-0.296	0.128	-0.491	-0.297	-0.515	0.201	-0.488	0.301	0.393	-0.418	0.414	
December	-0.452	0.289	0.190	0.571	-0.143	-0.476	-0.333	-0.333	-0.407	-0.084	-0.333	-0.381	-0.536	0.168	0.238	-0.428	-0.405	-0.632	
Pos	2	9	11	6	5	2	2	1	2	2	4	4	3	5	7	3	4	4	5
Neg	10	3	1	6	7	10	10	11	10	10	8	8	9	6	5	9	8	9	7
Trend	neg trend	pos trend	pos trend	no trend	no trend	neg trend	neg trend	neg trend	neg trend	neg trend	no trend	no trend	neg trend	no trend	no trend	neg trend	no trend	no trend	no trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MMNT	MOT	NIT	PBT	SET	SRT	VT	ZNT	
January	-0.514	0.522	-0.313	-0.536	-0.283	-0.555	-0.392	-	-0.268	-0.334	0.522	-0.322	-0.408	-0.894	-0.485	-0.334	-0.195	
February	-0.657*	0.522	-0.035	-0.039	-0.088	-0.486	0.382	-	0.193	-0.139	0.000	0.203	-0.089	-	-0.006	0.131	-0.213	
March	0.067	-	-0.568	-0.493	-0.381	-0.008	0.033	-	-0.742*	-0.267	0.137	-0.090	-0.317	-0.316	-0.167	-0.691	0.151	
April	-0.210	0.671*	0.000	-0.298	0.391	-0.340	0.009	-	-0.328	0.218	0.596	0.462	0.229	0.224	0.005	0.117	-0.554	
May	-0.506	-	-0.696*	0.398	-0.820***	-0.492	-0.394	-	-0.782**	-0.333	0.058	-0.415	-0.798***	-	-0.164	-0.356	-0.671*	
June	-0.204	-	-0.169	-0.495	-0.801*	-0.651	-0.429	-	-0.025	-0.286	0.630	-0.825*	-0.609	-0.894	-0.524	-0.327	-0.457	
July	0.064	0.522	-0.058	-0.309	-0.124	0.157	-0.427	-	-0.676*	-0.227	-0.196	-0.246	-0.632*	-0.258	-0.328	-0.696*	0.111	
August	0.539	-	-0.540	0.217	-0.575	0.025	-0.491	-	-0.811*	-0.452	-0.163	0.436	-0.409	0.775	-0.252	-0.615	0.554	
September	0.179	-	0.158	-0.538	0.020	0.109	0.266	-	-0.793	-0.357	0.000	0.474	-0.408	-	-0.883*	-0.222	0.306	
October	-0.117	-0.696*	-0.075	-0.866***	-0.754*	-0.663	0.083	-	0.084	-0.283	0.725*	0.173	-0.420	-0.316	-0.233	-0.480	-0.008	
November	-0.323	-	-0.711	0.149	0.041	0.433	-	-	-0.128	0.126	0.137	-0.137	-0.274	-0.577	-0.368	0.408	-0.458	
December	-0.398	-	-0.507	-0.158	0.231	-0.414	-0.393	-	0.020	-0.536	-	0.408	0.204	-0.447	-0.162	0.164	-0.162	
Pos	4	4	2	3	4	4	6	6	3	2	9	6	2	2	1	1	4	4
Neg	8	1	10	9	8	8	6	6	9	10	2	6	10	7	11	8	8	8
Trend	no trend	pos trend	neg trend	neg trend	neg trend	no trend	no trend	no trend	neg trend	neg trend	pos trend	no trend	neg trend	no trend	neg trend	no trend	no trend	no trend

Southern Bay River- NF02ZJ0024

Spearman Rank Correlation Coefficients for Monthly Means

\* significant at 0.05 level  
 \*\* significant at 0.02 level  
 \*\*\* significant at 0.01 level  
 \*\*\*\* significant at 0.005 level

	CONDL	COLORA	TURB	OZD	PHL	CAD	NAD	MGD	KD	SO4M	CLD	DOC	FT	NO3NO2	NT	SID	ALT	AST
January	-0.188	-0.133	0.188	0.000	0.576	0.128	-0.617	0.081	0.502	0.018	-0.528	-0.539	-0.261	-0.316	-0.340	0.283	-0.505	-0.188
February	0.362	0.075	-0.017	-0.561	0.442	0.055	-0.036	0.006	0.517	0.012	0.067	-0.663*	-0.283	-0.261	0.036	0.317	-0.176	-0.224
March	-0.639	-0.328	0.067	-0.186	-0.063	-0.500	-0.829**	-0.583	-0.303	0.067	-0.217	-0.600	-0.400	0.151	0.238	0.120	-0.192	-0.447
April	-0.236	0.249	0.610	-0.262	0.557	-0.164	-0.418	-0.049	0.665	0.073	-0.073	-0.246	-0.156	-0.272	0.232	-0.152	-0.336	0.394
May	-0.631	0.118	0.378	0.357	0.500	0.383	-0.714	-0.559	0.056	0.000	-0.357	-0.536	-0.383	-0.556	0.429	-0.657	-0.036	0.000
June	-0.571	0.064	0.500	0.288	0.071	-0.286	-0.559	-0.234	0.383	0.464	-0.607	0.179	-0.214	0.039	0.286	-0.290	0.321	-0.316
July	-0.355	0.064	0.109	0.143	-0.182	-0.225	-0.477	0.018	-0.367	0.224	-0.297	0.409	0.218	-0.022	0.445	-0.152	0.127	0.218
August	-0.75	0.849***	0.663	-0.599	-0.563	-0.595	-0.738*	-0.738*	-0.252	0.400	-0.733	0.663	-0.517	-0.363	-0.119	0.395	0.783**	0.447
September	-0.964****	0.811*	0.786*	-0.955	-0.564	-0.857*	-1.000	-0.857*	-0.577	-0.714	-0.829*	0.929***	0.679	-0.955***	0.600	-0.429	0.893**	0.000
October	-0.738	0.146	0.695	0.133	0.066	-0.200	-0.643	-0.108	-0.108	-0.650	-0.367	0.212	-0.285	0.358	-0.033	0.214	0.079	-0.655
November	-0.127	0.019	0.438	0.115	0.604	0.286	-0.636	0.210	0.560	-0.297	-0.236	-0.176	-0.632	0.025	-0.033	0.510	-0.297	0.717
December	-0.072	0.195	0.762*	0.667	-0.060	-0.263	-0.381	0.048	-0.122	0.048	-0.266	-0.310	-0.357	0.132	-0.214	0.714	-0.096	-0.775

Pos 1 10 11 7 7 7 4 0 6 6 6 8 8 2 2 5 7 7 7 5 5 6 6

Neg 11 2 1 5 5 5 8 12 6 6 6 4 4 11 7 10 7 5 5 7 7 7 6

Trend neg trend pos trend pos trend no trend no trend no trend no trend no trend no trend no trend no trend no trend no trend no trend no trend no trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MMNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	-0.406	0.701*	0.522	0.326	-0.076	-0.409	-0.261	-0.134	-0.056	-0.430	0.522	0.212	-0.193	-0.949	0.176	0.461	-0.348
February	-0.324	0.701*	0.000	0.051	-0.025	-0.185	-0.261	-0.139	-0.013	-0.515	0.522	0.161	-0.094	-0.500	0.164	0.037	-0.477
March	-0.750**	0.548	-	0.269	-0.329	0.017	-0.259	0.371	-0.615	-0.133	0.274	-0.251	-0.881****	-0.316	-0.617	0.266	-0.304
April	-0.278	0.783***	0.671*	-0.165	0.462	-0.653*	-0.100	-0.332	-0.089	-0.164	0.710**	0.204	0.231	0.112	-0.127	-0.171	0.065
May	-0.321	0.612	-	0.225	0.045	-0.107	0.429	-0.828	-0.037	-0.214	-	0.401	-0.299	-0.866	-0.090	0.418	-0.577
June	0.357	-	-	0.501	0.267	-0.727	0.090	-0.828	-0.193	0.357	-0.408	-0.408	-0.748	-0.316	-0.144	0.657	-0.509
July	0.032	0.858****	0.671*	0.200	-0.072	0.244	0.591	-0.111	-0.357	0.219	0.671*	0.205	-0.236	0.447	-0.345	0.075	-0.316
August	0.343	-	-	0.026	-0.310	-0.067	0.717*	-0.279	-0.229	0.750*	-	0.139	0.228	0.447	-0.669	-0.349	0.669
September	0.607	-	-	0.866*	0.802*	-0.487	0.929***	-0.828	-0.056	0.786*	-	-0.179	-0.579	0.000	-0.786*	0.168	0.741
October	0.212	0.696*	0.696*	-0.274	0.671	0.221	0.233	0.300	0.675	-0.033	0.730*	0.448	0.091	-0.775	0.200	0.621	-0.445
November	-0.288	0.522	-	-0.633	-0.096	-0.343	-0.133	-0.873**	-0.940****	-0.267	0.406	0.390	-0.621	0.707	0.142	-0.632	-0.633
December	-0.055	-	-	0.056	0.288	0.036	0.000	-0.828	-0.073	-0.500	-	0.408	0.259	-0.775	-0.321	0.556	-0.148

Pos 5 8 5 9 6 6 4 7 2 1 4 7 9 4 4 4 9 3

Neg 7 0 0 3 6 6 8 5 10 11 8 2 3 8 8 8 3 9

Trend no trend pos trend pos trend no trend no trend no trend no trend pos trend pos trend no trend no trend no trend no trend no trend neg trend

**Torrent River- NF02YC0001**  
**Spearman Rank Correlation Coefficients for Monthly Means**

· significant at 0.05 level  
 \*\* significant at 0.02 level  
 \*\*\* significant at 0.01 level  
 \*\*\*\* significant at 0.005 level

	CONDL	COLORA	TURB	O2D	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	FD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January	-0.483	0.346	-0.411	-	-0.092	-0.109	-0.484	-0.321	-0.445	-0.557	-0.455	-	-0.017	-0.236	-0.384	-0.232	-0.357	-	-0.612
February	-0.383	0.349	-0.681*	-	0.030	-0.030	-0.243	-0.158	0.335	-0.127	0.018	-	0.563	-0.128	-0.055	0.049	0.000	-	-0.655
March	-0.667	-0.371	-0.491	-	0.366	-0.607	-0.863*	-0.577	0.704	-0.539	-0.405	-	-0.087	-0.807*	-0.024	0.503	-0.975	-	-0.655
April	-0.690	0.638	-0.371	-	0.627	0.357	-0.667	0.144	0.357	-0.595	-0.524	-	0.643	0.072	0.430	0.739	0.086	-	-0.866
May	-0.406	0.431	-0.624	-	0.175	0.067	-0.653	-0.178	-0.536	-0.951****	-0.365	-	0.548	-0.436	0.403	0.365	-0.148	-	-0.612
June	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
July	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
August	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
September	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
October	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
November	-0.464	0.429	0.126	-	0.649	-0.543	-0.754	-0.657	0.200	-1.000	-0.928*	-	0.700	0.541	0.177	0.631	0.800	-	-0.775
December	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MINT	MOT	NIT	PBT	SET	SRT	VT	ZNT
Pos	0	5	1	1	5	2	0	1	4	0	1	1	4	2	3	5	3
Neg	6	1	5	5	1	4	6	5	2	6	5	5	2	4	3	1	3
Trend	neg trend	no trend	neg trend	neg trend	no trend	no trend	neg trend	no trend	no trend	neg trend	neg trend	neg trend	no trend	no trend	no trend	no trend	no trend

neg trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MINT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
February	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
March	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
April	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
June	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
July	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
August	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
September	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
October	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
November	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
December	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Pos  
 Neg  
 Trend

**Portland Creek- NF02YE0004**  
**Spearman Rank Correlation Coefficients for Monthly Means**

\* significant at 0.05 level  
 \*\* significant at 0.02 level  
 \*\*\* significant at 0.01 level  
 \*\*\*\* significant at 0.005 level

	CONDL	COLORA	TURB	O2D	PHL	CAD	NAD	MGD	KD	SOAIC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January	-0.473	0.019	0.265	-0.683	-0.173	-0.023	-0.893*	-0.319	-0.462	-0.655	-0.418	0.260	-0.005	0.083	-0.087	-0.564	0.127	0.289
February	-0.567	0.051	0.817**	-0.536	0.183	0.333	-0.886***	0.243	-0.361	-0.583	-0.567	0.481	0.150	0.202	0.250	0.240	0.227	0.169
March	-0.697*	0.449	0.806***	-0.539	0.515	0.030	-0.842***	-0.212	-0.422	-0.517	-0.584	0.503	0.188	0.603	0.383	0.216	0.370	-0.655
April	-0.292	0.614	0.455	0.561	0.224	0.588	-0.363	0.111	-0.239	-0.736*	-0.248	0.334	-0.043	0.536	0.736*	-0.678	0.224	0.158
May	-0.238	0.851**	0.252	0.927**	0.500	0.071	-0.929***	0.095	-0.855**	-0.833**	-0.934***	0.410	-0.333	0.527	0.500	-0.571	0.036	-0.354
June	-0.107	0.505	0.179	0.144	0.214	0.786*	-0.929***	0.643	-0.567	-0.901**	-0.964***	0.564	0.450	0.775	0.786*	-0.286	0.321	-0.258
July	-0.500	0.472	0.750	0.685	0.286	0.571	-1.000***	0.252	0.018	-0.234	-0.750	0.148	-0.335	0.889*	0.857*	0.613	0.357	-
August	-0.952	0.618	0.617	-0.504	-0.042	-0.167	-0.85***	-0.301	-0.511	-0.617	-0.567	0.600	-0.100	0.728*	0.786*	-0.220	0.467	-0.289
September	-0.929***	0.537	0.524	-0.524	0.143	-0.262	-0.976***	-0.482	-0.690	-0.619	0.071	0.350	-0.048	-0.135	0.000	-0.476	0.180	-
October	-0.700*	0.842**	0.550	-0.176	0.467	-0.301	-0.767*	-0.437	-0.603	-0.667	-0.650	0.350	-0.360	0.887***	0.667	-0.643	0.500	0.000
November	-0.433	0.832**	0.333	-0.354	0.650	-0.251	-0.867***	-0.367	-0.675	-0.767*	-0.717*	0.243	-0.167	0.610	0.719	-0.476	0.167	-0.671
December	-0.357	0.899*	0.037	0.090	0.429	0.321	-0.857*	0.162	-0.873*	-0.964***	-0.857*	0.595	0.286	0.889*	0.857*	-0.486	0.721	-
Pos	0	12	12	5	9	7	0	6	1	0	0	12	4	11	11	3	12	4
Neg	12	0	0	7	3	5	12	6	11	12	12	0	8	1	1	9	0	5
Trend	neg trend	pos trend	pos trend	no trend	pos trend	no trend	neg trend	no trend	neg trend	neg trend	neg trend	pos trend	no trend	pos trend	pos trend	neg trend	pos trend	no trend

	BAT	BET	BET	CDT	COT	CRT	CUT	FET	HGT	LJT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	-0.737**	0.671*	0.725*	0.581	0.359	0.331	-0.703*	0.582	-0.239	-0.505	0.745**	0.359	0.470	-0.292	-0.775	-0.566	0.000	-0.311
February	-0.349	0.725*	0.725*	0.725*	0.822**	0.667	-0.587	0.571	-0.219	-0.010	0.683	0.730*	0.783**	0.390	-0.447	-0.502	0.104	-0.261
March	-0.413	-	-	-	0.497	0.087	-0.265	0.328	0.845**	0.025	0.201	0.261	0.290	-0.365	0.866	-0.742*	0.000	-0.440
April	-0.085	0.522	0.522	0.522	0.177	0.787**	0.092	0.164	-0.548	0.445	-0.055	0.640	0.795***	0.203	-0.258	0.503	0.617	0.244
May	-0.783*	-	-	0.252	-0.056	-0.265	-0.376	0.119	-0.866*	-0.166	0.405	0.282	0.247	-0.206	-0.949	-0.277	-0.183	-0.759*
June	-0.252	-	-	-	0.193	-0.158	-0.327	0.429	0.169	0.118	0.536	0.474	-	-0.223	-0.258	-0.126	0.056	-0.148
July	-0.679	-	-	0.408	0.316	-0.612	-0.111	0.536	0.393	-0.267	-0.214	-	-0.267	-0.037	-0.738	-0.337	-0.189	-0.054
August	-0.602	-	-	-	0.412	-0.483	-0.060	0.524	-0.866*	-0.327	0.611	0.620	0.000	-0.783**	0.775	-0.599	-0.365	0.551
September	-0.655	-	-	-	0.873**	-0.577	0.196	0.238	-0.866*	-0.591	0.381	0.674	0.056	-0.394	0.000	-0.731	-0.204	0.663
October	-0.226	-	-	0.137	0.041	-0.504	0.156	0.571	-0.866*	0.390	0.524	0.247	-0.082	-0.324	-0.949	-0.157	-0.012	0.470
November	-0.770*	0.000	-	-	-0.222	-0.247	-0.482	0.262	-0.866*	0.350	-0.286	-	0.247	-0.753*	-0.949	-0.928***	-0.344	-0.711
December	-0.291	-	-	-	0.810*	0.612	-0.536	0.500	-0.775	0.318	0.607	0.791*	-	-	0.000	-0.334	-0.842*	-0.270
Pos	0	6	10	6	10	5	3	12	3	6	9	10	8	2	4	1	5	4
Neg	12	0	2	0	2	7	9	0	9	6	3	0	2	9	8	11	7	8
Trend	neg trend	pos trend	pos trend	pos trend	pos trend	no trend	neg trend	pos trend	neg trend	no trend	pos trend	pos trend	pos trend	neg trend	no trend	neg trend	no trend	no trend





**Lomond River- NF02YH0018**  
**Spearman Rank Correlation Coefficients for Monthly Means**

\* significant at 0.05 level  
 \*\* significant at 0.02 level  
 \*\*\* significant at 0.01 level  
 \*\*\*\* significant at 0.005 level

	CONDL	COLORA	TURB	O2D	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January	-0.196	0.106	0.371	-0.604	-0.082	-0.406	-0.433	0.018	-0.496	-0.645*	-0.109	0.499	0.009	0.196	0.310	0.036	-0.251	0.418
February	-0.151	-0.053	0.427	-0.455	-0.182	-0.073	-0.433	0.140	0.069	0.152	0.255	0.368	-0.387	0.354	0.018	0.565	-0.420	-0.267
March	-0.309	0.425	0.767**	-0.506	-0.663*	0.393	-0.745*	0.333	-0.094	-0.012	-0.406	0.535	-0.182	-0.092	-0.200	0.132	0.079	-0.309
April	0.415	-0.111	0.024	0.181	-0.140	0.418	-0.150	0.873*	-0.376	-0.467	-0.139	-0.018	-0.430	0.796***	0.017	0.667	-0.201	0.120
May	0.119	0.702	0.476	0.857*	-0.333	-0.143	-0.500	0.214	-0.454	-0.048	-0.167	0.554	-0.431	0.928***	0.738*	0.750	-0.238	-0.289
June	-0.450	0.433	0.577	0.286	-0.393	-0.607	-0.786*	-0.342	-0.433	-0.429	-0.179	0.414	0.143	0.685	0.679	0.018	0.607	0.316
July	-0.524	0.764	0.707	0.523	-0.180	-0.893**	-0.324	-0.857*	0.162	-0.429	-0.821*	0.347	0.000	0.519	0.810*	0.156	0.889***	0.707
August	-0.698	0.742*	0.700*	-0.033	-0.600	-0.617	-0.862***	-0.600	-0.860***	-0.300	-0.717*	0.550	-0.675	0.420	0.786*	-0.024	0.159	-0.158
September	-0.427	0.541	0.567	-0.144	0.367	-0.551	-0.929***	-0.286	-0.491	-0.452	-0.643	0.410	-0.500	-0.240	0.190	0.067	0.686	0.169
October	0.024	0.716*	0.433	-0.767*	0.405	-0.271	-0.767*	0.251	-0.754*	-0.100	-0.300	0.317	-0.661	0.866***	0.262	0.048	-0.136	-0.316
November	-0.418	0.639	0.400	-0.552	-0.033	-0.051	-0.753*	-0.033	-0.506	-0.400	-0.733*	0.322	0.075	0.921***	0.262	0.071	-0.067	-0.707
December	-0.146	0.544	0.238	-0.491	-0.603	0.042	-0.778*	0.167	-0.553	-0.519	-0.533	0.347	0.250	0.503	-0.143	0.190	0.419	-0.224
Pos	3	10	12	4	2	3	0	7	2	1	1	1	5	10	10	11	6	5
Neg	9	2	0	8	10	9	12	5	10	11	11	1	7	2	2	1	6	7
Trend	neg trend	pos trend	pos trend	no trend	neg trend	neg trend	neg trend	no trend	neg trend	neg trend	neg trend	pos trend	no trend	pos trend	pos trend	pos trend	no trend	no trend

	BAT	BET	CDT	COT	QRT	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	-0.673	0.671*	0.671*	0.115	0.498	-0.530	-0.082	-0.274	-0.645*	0.118	0.255	0.376	-0.042	-0.775	-0.269	0.288	-0.485
February	-0.346	0.671*	0.671*	0.231	0.298	-0.569	-0.318	0.060	-0.005	-0.385	0.195	0.671*	0.371	-0.948	-0.109	0.422	0.042
March	0.018	0.522	0.522	0.142	-0.135	-0.267	-0.333	-0.436	-0.268	-0.350	0.824**	0.609	-0.337	-	-0.224	-0.082	-0.461
April	0.170	0.522	0.522	-0.304	0.208	-0.228	-0.176	-0.621	0.769**	-0.201	0.853***	0.522	0.315	0.775	0.444	0.640	0.050
May	-0.542	-	0.247	0.247	-0.094	-0.512	0.190	-0.866*	-0.038	0.180	-0.047	0.041	-0.247	-0.949	-0.310	0.013	-0.566
June	-0.613	-	-	-0.474	-0.158	-0.613	0.750	0.169	0.120	0.847*	0.208	-0.612	-0.612	0.447	-0.393	0.139	0.281
July	-0.929***	0.577	0.592	0.507	-0.109	-0.600	0.690	0.131	-0.466	0.048	-0.472	-0.027	0.109	-0.258	-0.762*	0.507	0.268
August	-0.795**	-	-	-0.091	-0.548	-0.094	0.433	-0.279	-0.454	-0.159	-0.558	-0.091	-0.762*	0.775	-0.667	-0.096	-0.420
September	-0.151	0.548	0.548	-0.075	0.548	-0.283	0.717*	-0.507	0.449	0.345	0.913***	0.000	0.251	0.775	-0.467	-0.257	0.208
October	-0.672	-	-	-0.727*	-0.414	-0.318	-0.333	-0.866*	0.332	0.100	0.374	-0.023	-0.388	-0.775	-0.433	-0.183	-0.542
November	-0.763*	-	-	-0.536	-0.412	-0.833**	0.000	-0.866*	0.293	0.293	-0.274	-0.540	-0.733	-0.775	-0.262	-0.749*	-0.655
December	-0.359	-	-	-0.267	0.204	-0.414	0.571	-	0.319	0.571	0.168	-0.204	-	0.774	-0.464	0.791*	-0.477
Pos	2	6	6	5	5	0	7	3	5	8	8	6	4	5	1	7	5
Neg	10	0	0	7	7	12	5	8	7	4	4	6	7	6	11	5	7
Trend	neg trend	pos trend	pos trend	no trend	no trend	neg trend	neg trend	neg trend	no trend	no trend	pos trend	pos trend	no trend	no trend	neg trend	no trend	no trend

**Main River- NF02YG0001**

**Spearman Rank Correlation Coefficients for Monthly Means**

- \* significant at 0.05 level
- \*\* significant at 0.02 level
- \*\*\* significant at 0.01 level
- \*\*\*\* significant at 0.005 level

	CONDL	COLORA	TURB	O2D	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST	
January	-0.518	0.426	0.182	-0.105	0.182	-0.115	-0.455	-0.285	-0.294	-0.351	-0.227	0.352	0.009	0.077	0.282	0.515	-0.174	0.418	
February	0.183	-0.220	0.159	-0.406	-0.083	-0.083	-0.405	0.102	-0.253	-0.085	0.083	-0.471	0.067	-0.509	0.283	0.190	-0.126	0.000	
March	-0.248	0.180	0.433	-0.029	-0.152	0.030	-0.539	-0.227	-0.456	-0.188	0.037	0.037	-0.109	-0.165	0.241	0.400	-0.115	-0.655	
April	-0.318	-0.094	0.473	-0.374	0.173	0.100	-0.515	-0.337	-0.462	-0.791***	-0.436	-0.609	-0.551	-0.165	0.139	-0.297	-0.005	0.234	
May	-0.452	0.447	0.683	0.750	-0.192	-0.611	-0.714	-0.548	-0.671	-0.738*	-0.667	-0.527	-0.036	-0.655	0.500	-0.643	-0.108	-0.354	
June	-0.541	0.318	0.288	0.234	-0.234	-0.393	-0.571	-0.429	-0.306	-0.571	-0.500	0.393	0.179	-0.612	-0.071	0.143	0.286	0.447	
July	-0.643	0.468	0.464	0.522	-0.250	0.429	-0.786*	-0.382	-0.643	-0.829*	-0.643	0.536	0.102	-0.579	0.214	0.536	0.464	-	
August	-0.817**	0.889***	0.753	-0.176	-0.510	-0.400	-0.917***	-0.753*	-0.866***	-0.209	-0.833***	0.817**	0.102	-0.529	-0.036	-0.143	0.837***	0.000	
September	-0.762*	0.430	0.690	-0.048	-0.071	-0.238	-0.952***	-0.708	-0.467	-0.286	-0.619	-0.048	-0.357	-0.312	-0.429	-0.357	0.143	-0.224	
October	-0.667	0.270	0.667	0.546	0.517	0.033	-0.767*	-0.509	-0.322	-0.083	-0.433	-0.283	-0.433	0.595	0.024	-0.119	-0.059	-0.224	
November	-0.600	0.319	0.201	0.034	0.250	0.343	-0.700*	-0.577	-0.376	-0.633	-0.717*	0.025	-0.192	0.761*	0.143	-0.286	-0.133	-0.671	
December	-0.071	0.767	0.500	-0.541	0.619	0.571	-0.819	0.407	0.267	-0.167	-0.381	0.306	-0.619	0.259	0.607	-0.821*	-0.024	-	
Pos	1	10	12	5	5	6	0	2	1	0	1	7	5	4	9	5	7	4	5
Neg	11	2	0	7	7	6	12	10	11	12	11	5	7	8	3	7	8	8	5
Trend	neg trend	pos trend	pos trend	no trend	no trend	no trend	neg trend	neg trend	neg trend	neg trend	neg trend	no trend	no trend	no trend	pos trend	no trend	no trend	no trend	no trend

  

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT	
January	-0.105	0.671*	0.581	0.612	-0.011	-0.401	0.205	-0.115	-0.240	0.556	0.567	0.161	0.074	-0.775	-0.196	-0.048	0.000	
February	0.458	0.548	0.000	0.168	-0.420	0.000	-0.460	0.134	-0.703*	0.410	0.548	-0.285	-0.085	-0.949	-0.167	-0.183	-0.092	
March	-0.055	-	-0.087	-0.076	-0.199	-0.431	-0.491	-0.866*	-0.151	0.115	-0.262	0.241	-0.571	-	-0.248	-0.555	-0.067	
April	-0.223	0.671*	0.581	0.150	0.365	-0.593	-0.391	-0.220	0.184	0.091	0.354	0.421	0.438	0.447	-0.227	0.361	-0.241	
May	-0.587	-	0.247	0.241	0.281	-0.627	0.571	-0.866*	-0.025	0.405	0.082	0.225	-0.026	-0.258	-0.667	0.708	-0.857***	
June	-0.546	-	0.612	-0.120	0.094	-0.505	0.286	-0.707	-0.505	0.250	-	-0.359	-0.356	0.775	-0.214	0.243	-0.667	
July	0.450	-	0.000	0.474	-0.218	-0.252	0.143	-0.169	0.239	0.523	0.000	-0.359	-0.382	-0.866	-0.054	0.218	0.321	
August	0.537	-	-	0.186	-0.598	-0.293	0.650	-0.866*	-0.096	0.417	-0.440	0.309	-0.171	0.447	-0.678	0.184	0.555	
September	-0.357	-	-0.655	0.049	-0.200	-0.850**	-0.262	-0.866*	-0.451	-0.262	-0.756*	-0.098	-0.655	-0.775	-0.762	-0.255	-0.168	
October	-0.636	-	-	-0.316	0.409	0.361	-0.383	-0.279	0.592	-0.583	-0.548	-0.070	-0.414	-0.775	-0.567	0.525	-0.593	
November	-0.050	-	-0.207	-0.485	-0.699	-0.071	0.282	-0.498	-0.200	0.048	0.577	-0.344	-0.565	-0.775	-0.429	-0.355	-0.595	
December	-0.238	-	-	0.041	-0.061	-0.024	0.119	0.393	-0.248	-0.143	0.577	0.077	0.077	-	0.371	-0.091	-0.667	
Pos	3	6	6	8	4	2	7	2	3	3	7	6	3	3	1	6	3	3
Neg	9	3	no trend	4	8	10	5	10	9	9	4	6	9	7	11	6	6	9
Trend	neg trend	no trend	no trend	no trend	no trend	neg trend	no trend	neg trend	neg trend	pos trend	no trend	no trend	neg trend	no trend	neg trend	no trend	no trend	neg trend



**Lower Humber River- NF02YL0012**

**Spearman Rank Correlation Coefficients for Monthly Means**

- . significant at 0.05 level
- \*\* significant at 0.02 level
- \*\*\* significant at 0.01 level
- \*\*\*\* significant at 0.005 level

	CONDL	COLORA	TURB	O2D	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January	-0.300	0.111	0.373	-0.558	-	0.046	-0.721*	0.005	0.025	0.298	0.127	0.447	-0.164	-0.049	0.176	0.309	0.218	-0.144
February	0.322	0.250	0.559	-0.639	0.176	0.491	-0.152	0.324	-0.472	-0.468	-0.450	0.195	0.018	0.073	-	0.285	0.188	0.077
March	-0.286	0.139	0.321	-0.429	-0.143	0.214	-0.775	0.054	-0.694	-0.429	-0.857*	-0.071	-0.357	0.643	0.643	-0.286	0.286	-0.258
April	0.068	0.507	0.817**	-0.503	0.285	0.418	-0.736*	0.328	-0.373	0.117	-0.318	0.617	-0.417	0.471	0.214	-0.262	0.800**	-0.354
May	-0.017	0.452	0.767*	-0.335	0.383	-	-0.368	0.316	-0.254	-0.200	-0.283	0.202	-0.467	0.536	0.192	0.216	0.100	-0.577
June	0.429	0.082	0.429	-0.857*	0.711*	0.126	-0.883****	-0.261	-0.638	-0.500	-0.251	0.108	0.050	-0.747*	-	0.323	-0.377	-0.354
July	3	6	6	0	4	5	0	5	1	2	1	5	2	4	4	4	5	1
August	3	0	0	6	1	0	6	1	5	4	5	1	4	2	0	2	1	5
September	no trend	pos trend	pos trend	neg trend	pos trend	pos trend	neg trend	pos trend	neg trend	no trend	neg trend	pos trend	no trend	no trend	pos trend	no trend	pos trend	neg trend
October	no trend	pos trend	pos trend	neg trend	pos trend	pos trend	neg trend	pos trend	neg trend	no trend	neg trend	pos trend	no trend	no trend	pos trend	no trend	pos trend	neg trend
November	no trend	pos trend	pos trend	neg trend	pos trend	pos trend	neg trend	pos trend	neg trend	no trend	neg trend	pos trend	no trend	no trend	pos trend	no trend	pos trend	neg trend
December	no trend	pos trend	pos trend	neg trend	pos trend	pos trend	neg trend	pos trend	neg trend	no trend	neg trend	pos trend	no trend	no trend	pos trend	no trend	pos trend	neg trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	-0.336	0.418	0.359	0.538	-0.411	-0.297	0.364	-0.137	-0.366	0.418	0.387	0.084	-0.058	-0.866	-0.432	-0.268	-0.155
February	-0.406	0.719*	0.722*	-0.090	0.864****	-0.024	0.479	-0.456	0.058	0.219	0.870****	0.882****	0.719*	0.447	0.294	0.864****	0.239
March	-0.464	-	-	0.080	0.094	-0.487	0.429	-0.393	-0.150	0.571	0.433	-0.598	-0.512	0.447	-	-0.134	0.036
April	-0.059	-0.518	-0.548	-0.866****	-0.633	-0.586	0.900****	-0.945****	-0.024	0.267	-0.438	-0.286	-0.511	0.447	0.653	-0.330	-0.131
May	-0.259	-	-	-0.252	0.062	0.546	0.048	-0.866*	0.501	0.120	0.630	0.192	-0.218	-0.949	0.168	0.401	-0.344
June	-0.570	-	-	0.411	-0.257	0.122	-0.142	0.866*	0.347	0.100	-0.725*	-0.017	-0.525	-0.775	-0.217	0.138	-0.264
July	0	2	2	3	3	2	5	1	3	6	4	3	1	3	3	3	2
August	6	1	1	3	3	4	1	5	3	0	2	3	5	3	2	3	4
September	neg trend	no trend	no trend	no trend	no trend	no trend	pos trend	neg trend	no trend	pos trend	no trend	no trend	neg trend	no trend	no trend	no trend	no trend
October	neg trend	no trend	no trend	no trend	no trend	no trend	pos trend	neg trend	no trend	pos trend	no trend	no trend	neg trend	no trend	no trend	no trend	no trend
November	neg trend	no trend	no trend	no trend	no trend	no trend	pos trend	neg trend	no trend	pos trend	no trend	no trend	neg trend	no trend	no trend	no trend	no trend
December	neg trend	no trend	no trend	no trend	no trend	no trend	pos trend	neg trend	no trend	pos trend	no trend	no trend	neg trend	no trend	no trend	no trend	no trend

**Comer Brook- NF02YL0013**  
**Spearman Rank Correlation Coefficients for Monthly Means**

\* significant at 0.05 level  
 \*\* significant at 0.02 level  
 \*\*\* significant at 0.01 level  
 \*\*\*\* significant at 0.005 level

	CONDL	COLORA	TURB	O2D	PHL	CAD	NAD	MGD	KD	SOAIC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January	0.764***	0.110	0.247	-0.498	0.114	0.727**	0.467	0.755***	-0.006	0.237	0.664*	0.653*	0.173	-0.227	-0.073	0.343	0.145	-0.179
February	0.224	0.106	0.366	-0.386	0.207	0.164	0.176	0.155	-0.037	0.152	0.224	0.215	0.333	-0.036	0.145	0.012	0.237	0.158
March	0.150	0.211	0.350	-0.893***	0.717*	0.583	-0.167	0.633	-0.132	0.017	-0.233	0.538	-0.417	0.042	0.286	0.455	0.383	-0.169
April	-0.370	0.318	0.030	0.111	-0.297	-0.401	-0.067	-0.418	-0.104	-0.237	-0.115	0.646	-0.527	-0.061	0.233	-0.059	0.176	0.289
May	0.429	0.902***	0.539	-0.109	-0.333	0.595	-0.216	0.571	-0.181	-0.714	-0.347	0.145	-0.238	0.464	0.156	0.255	0.429	-
June	-0.143	0.433	0.000	0.091	-0.214	-0.143	-0.036	-0.143	0.252	-0.500	-0.750	0.613	-0.107	0.714	0.500	-0.072	0.342	-0.258
July	0.286	0.775	0.536	-0.234	0.577	0.429	0.036	0.414	0.378	0.143	0.357	0.364	0.055	0.185	0.643	-0.018	0.739	-
August	-0.183	0.328	0.683	0.134	-0.633	-0.283	-0.368	-0.192	-0.226	-0.075	-0.519	0.126	-0.261	0.611	0.179	-0.275	0.812**	-0.112
September	-0.667	0.160	0.357	-0.327	0.167	-0.714	-0.738*	-0.690	-0.810*	-0.690	-0.810*	0.024	0.000	0.439	-0.214	-0.635	0.414	-0.369
October	0.100	0.276	0.184	0.133	0.533	0.100	-0.267	0.100	-0.109	0.300	-0.050	0.185	-0.267	0.291	0.192	0.286	0.238	-0.316
November	0.583	0.062	0.567	0.367	0.450	0.833***	0.467	0.833***	0.450	0.767*	0.583	-0.017	-0.433	0.628	0.563	0.843**	-0.333	-0.447
December	0.429	0.667	0.657	0.143	0.000	0.095	-0.357	-0.143	0.540	0.262	-0.012	0.793*	0.241	0.631	0.571	0.236	0.241	-0.258
Pos	8	12	12	6	8	8	4	7	4	7	4	11	5	9	10	7	11	2
Neg	4	0	0	6	4	4	8	5	8	5	8	1	7	3	2	5	1	8
Trend	no trend	pos trend	pos trend	no trend	no trend	no trend	no trend	no trend	no trend	no trend	no trend	pos trend	no trend	pos trend	pos trend	no trend	pos trend	neg trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	0.721**	0.671*	0.710*	0.645*	0.618*	-0.653*	0.391	0.069	-0.240	0.445	0.581	0.265	-0.270	-0.447	0.555	0.158	-0.087
February	0.651*	0.500	0.522	0.229	0.309	-0.276	0.273	-0.091	-0.029	0.100	0.478	0.392	-0.070	0.258	0.100	0.315	0.349
March	0.450	0.725*	0.725*	0.709*	0.709*	0.025	0.417	0.000	0.158	0.235	0.448	0.449	0.322	-	0.418	0.287	0.250
April	-0.264	0.522	0.522	0.135	0.494	0.062	0.236	-0.873**	0.585	-0.547	0.576	0.213	0.427	0.447	-0.389	0.020	-0.636
May	-0.244	-	-	0.489	0.350	-0.488	0.548	-0.866*	0.250	0.762*	0.247	0.254	-0.342	-0.632	0.072	-0.140	-0.395
June	0.072	-	-0.612	-0.239	-0.355	-0.334	0.071	-0.828	-0.289	0.360	-0.612	-0.612	-0.134	-0.258	-0.143	-0.337	0.400
July	-0.559	-	-	-	-0.612	-0.296	0.464	0.169	0.000	0.144	0.612	-0.802*	-0.612	-0.258	0.286	0.661	0.600
August	-0.185	-	-0.411	0.479	-0.274	-0.655	0.033	-0.866*	-0.114	-0.067	-0.329	0.249	-0.434	-	-0.183	-0.641	0.170
September	-0.643	-	-0.408	-0.808*	-0.474	-0.414	0.321	-0.878	-0.598	-0.252	-	-0.505	-0.453	-	-0.643	-0.667	0.519
October	-0.333	-0.252	-0.296	-0.856**	-0.399	0.146	-0.048	-0.169	0.221	-0.310	0.436	-0.356	-0.875**	-	-0.214	-0.086	-0.687
November	0.343	-0.520	-0.091	-0.717	-0.444	-0.275	-0.167	-0.110	0.091	-0.180	0.091	-0.444	-0.728	-	0.802*	-0.250	-0.731
December	-0.160	-	-	0.109	0.187	-0.554	0.262	-0.878	0.198	-0.275	-0.412	0.756*	-0.082	-	0.132	0.436	-0.458
Pos	5	4	4	7	6	3	10	3	6	6	8	7	2	2	7	6	6
Neg	7	2	5	4	6	9	2	9	6	6	3	5	10	4	5	6	6
Trend	no trend	no trend	no trend	no trend	no trend	neg trend	pos trend	neg trend	no trend	no trend	no trend	no trend	neg trend	no trend	no trend	no trend	no trend

**Pinchgut Brook- NF02YJ0004**  
**Spearman Rank Correlation Coefficients for Monthly Means**

\* significant at 0.05 level  
 \*\* significant at 0.02 level  
 \*\*\* significant at 0.01 level  
 \*\*\*\* significant at 0.005 level

	CONDL	COLORA	TURB	O2D	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January	-0.202	0.105	-0.073	-0.728*	-0.236	-0.261	-0.617	-0.152	-0.288	0.304	0.127	0.171	-0.122	0.480	0.267	0.678	-0.518	0.000
February	-0.617	0.537	0.251	-0.360	-0.251	-0.159	-0.854***	-0.600	-0.061	-0.600	-0.783**	0.593	-0.227	0.008	0.267	0.903***	0.627	-0.354
March	-0.583	0.596	0.717*	-0.288	-0.770*	-0.483	-0.167	-0.310	-0.185	0.117	-0.250	0.259	-0.828**	0.400	0.571	0.479	-0.159	-0.894
April	0.273	-0.115	-0.014	-0.238	-0.164	0.424	-0.564	0.373	-0.393	-0.237	-0.155	-0.578	-0.609	0.018	-0.794***	0.377	-0.273	0.436
May	-0.667	0.540	0.524	-0.270	-0.802*	-0.587	-0.810	-0.826*	-0.747*	-0.476	-0.619	-0.119	-0.071	0.012	0.286	0.036	0.024	-0.354
June	-0.107	-0.144	0.655	-0.198	-0.714	-0.107	-0.857*	0.000	-0.378	-0.946***	-0.821*	0.198	-0.429	0.055	-0.613	-0.086	0.000	-0.258
July	-0.607	0.418	0.357	-0.618	-0.286	-0.200	-0.679	-0.571	-0.071	-0.991***	-1.000	0.143	-0.108	-0.148	0.393	-0.036	0.286	-
August	-0.400	0.365	0.683	0.050	-0.583	-0.583	-0.787*	-0.667	-0.515	-0.500	-0.817*	0.695	0.167	-0.034	0.286	0.144	0.209	-0.580
September	0.095	0.517	0.524	-0.060	-0.263	-0.024	-0.905***	0.405	-0.700	-0.119	-0.667	0.060	-0.738*	-0.060	-0.357	-0.168	-0.262	0.289
October	-0.059	0.783**	0.728*	0.218	0.183	-0.118	-0.683	-0.159	-0.180	-0.345	-0.717*	0.133	0.136	0.924***	0.107	0.214	0.287	-0.775
November	-0.672	0.470	0.433	0.393	0.267	-0.084	-0.933***	0.183	-0.485	-0.639	-0.833***	0.467	-0.167	0.538	-0.190	0.216	-0.546	-0.866
December	-0.107	0.668	0.821*	-0.519	-0.143	0.204	-0.286	0.405	-0.109	-0.071	-0.667	0.185	0.310	0.721	0.571	0.536	-0.205	-0.258
Pos	2	10	2	3	2	2	0	5	0	2	1	10	3	9	8	9	6	3
Neg	10	2	2	9	10	10	12	7	12	10	11	2	9	3	4	3	6	8
Trend	neg trend	pos trend	pos trend	neg trend	neg trend	neg trend	neg trend	no trend	neg trend	neg trend	neg trend	pos trend	neg trend	pos trend	no trend	pos trend	no trend	no trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	-0.258	0.522	0.522	0.640	0.522	-0.730*	0.309	-0.183	-0.380	0.541	0.640	0.203	-0.078	-0.775	-0.128	0.395	-0.384
February	-0.375	0.548	0.548	-0.536	-0.426	-0.289	0.333	-0.433	-0.560	0.200	0.301	-0.139	-0.426	-	-0.467	-0.266	-0.102
March	0.111	-	-	-0.124	-0.548	-0.489	0.400	-0.309	-0.256	0.167	0.866***	0.598	-0.548	-	-0.050	-0.075	-0.511
April	0.055	0.671*	-	-0.067	0.688*	-0.247	0.064	-0.284	-0.127	-0.433	0.363	0.682*	0.037	0.632	0.236	0.129	-0.446
May	-0.709	-	-	-0.187	-0.247	-0.602	-0.071	-0.866*	-0.235	0.143	0.179	-0.041	-0.592	0.000	-0.643	0.082	-0.712
June	-0.523	-	-	0.000	-	-0.306	-0.214	-0.828	0.159	-0.464	0.791*	-0.453	-0.408	0.447	0.036	-0.223	-0.346
July	-0.577	-	-	0.000	-0.204	-0.090	0.036	-0.828	0.145	-0.536	0.791*	-0.408	-0.316	-0.258	0.607	-0.089	-0.281
August	-0.630	-	-	-0.505	-0.730*	0.077	0.317	-0.866*	-0.454	0.059	0.374	-0.730*	-0.411	0.447	0.100	-	-0.164
September	-0.439	-	-	0.124	-	-0.731	0.048	-0.866**	-0.218	-0.395	0.509	-0.111	-0.546	-0.258	-0.323	-0.396	0.396
October	-0.724	-	-	-0.730	-0.247	0.719	0.048	0.577	0.540	0.866	0.386	0.062	0.126	-0.866	-0.476	0.247	0.265
November	-0.661	-	-	-0.764*	-0.203	-0.833*	-0.548	-0.866*	0.175	-0.619	0.428	-0.200	-0.632	-0.894	-0.810*	-0.412	-0.885***
December	-0.807*	-	-	0.109	-	-0.549	0.286	-0.878	0.279	0.048	0.873**	-0.056	-0.296	-0.866	-0.431	0.756*	-0.301
Pos	2	3	3	5	2	2	9	1	5	6	12	4	2	4	4	5	2
Neg	10	0	0	7	7	10	3	11	7	6	0	8	10	6	8	6	10
Trend	neg trend	no trend	no trend	no trend	no trend	neg trend	pos trend	neg trend	no trend	no trend	pos trend	no trend	neg trend	no trend	no trend	no trend	neg trend

Harry's River-NF02YJ0006

Spearman Rank Correlation Coefficients for Monthly Means

. significant at 0.05 level  
 .. significant at 0.02 level  
 \*\*\* significant at 0.01 level  
 \*\*\*\* significant at 0.005 level

	CONDL	COLORA	TURB	O2D	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January	-0.182	0.557	0.327	-0.200	0.492	-0.032	0.282	-0.156	0.237	-0.638	-0.297	0.467	0.248	-0.239	0.070	0.319	-	-
February	-0.082	0.665*	-0.196	-	0.057	-0.132	-0.055	-0.005	0.006	-0.430	-0.309	0.755*	-0.219	-0.392	-0.319	0.829	-	-0.612
March	-0.800****	0.668*	-0.027	0.522	-0.346	-0.469	-0.754**	-0.564	0.115	-0.794***	-0.297	0.659	0.150	-0.492	-0.355	-0.029	-	-0.401
April	0.347	0.012	0.443	-	0.219	0.498	-0.353	0.227	0.140	-0.583	-0.933****	-0.721	0.115	-0.301	-0.358	0.700	-	-0.828
May	-0.438	0.227	0.509	0.084	0.024	-0.103	-0.394	-0.202	0.176	-0.373	-0.818***	-0.685	0.394	-0.573	-0.647	-0.700	-	0.000
June	-0.600	0.566	0.360	-	-0.429	-0.644	-0.608	-0.620	-0.356	-0.614	-0.761***	0.587	-0.055	-0.641*	-0.347	-0.543	-	-0.655
July	-0.381	0.270	0.147	-	-0.295	-0.275	-0.405	-0.168	-0.611	-0.755*	-0.452	-0.103	0.072	-0.512	-0.551	-0.400	-	-
August	-0.465	-0.393	0.166	-	-0.140	-0.067	-0.153	-0.145	-0.036	-0.455	-0.418	0.167	0.321	-0.259	-0.409	-0.086	-	0.131
September	-0.159	-0.502	0.276	-	0.810*	-0.084	-0.643	-0.732	0.355	-0.381	-0.833**	-0.234	0.071	0.366	-0.536	-0.900	-	-
October	-0.159	-0.502	0.276	-	0.810*	-0.084	-0.643	-0.732	0.355	-0.381	-0.833**	-0.234	0.071	0.366	-0.536	-0.900	-	-
November	0.233	-0.705*	-0.159	0.348	0.902****	0.492	-0.552	0.233	-0.151	-0.226	-0.567	-0.929***	-0.243	0.500	-0.671	0.400	-	-0.131
December	0.103	-0.322	0.387	-	0.609	0.152	-0.699*	-0.189	0.294	-0.395	-0.830****	-0.503	0.067	-0.049	-0.552	-0.300	-	-

Pos 3 9 7 5 3 3 1 1 2 8 0 0 5 9 3 1 4 2 2  
 Neg 9 9 5 5 3 1 4 11 10 4 12 12 7 3 9 11 8 4 5  
 Trend neg trend no trend pos trend neg trend neg trend no trend pos trend neg trend neg trend no trend neg trend no trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
February	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
March	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
April	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
June	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
July	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
August	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
September	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
October	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
November	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
December	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Pos  
 Neg  
 Trend

Lloyd's River- NF02YN0001  
 Spearman Rank Correlation Coefficients for Monthly Means

\* significant at 0.05 level  
 \*\* significant at 0.02 level  
 \*\*\* significant at 0.01 level  
 \*\*\*\* significant at 0.005 level

	CONDL	COLORA	TURB	O2D	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January	-0.323	0.304	0.261	-0.452	0.018	-0.275	-0.595	-0.357	-0.778*	-0.382	-0.236	-0.143	-0.079	0.488	-0.152	0.179	-0.167	-0.316
February	-0.370	-0.541	0.503	-0.690	0.061	0.067	-0.350	-0.310	-0.783**	0.321	0.067	-0.697*	-0.224	0.402	-0.127	-0.133	-0.079	-
March	-0.238	-0.183	0.503	-0.358	-0.243	-0.167	-0.786*	-0.299	-0.659	-0.492	-0.648*	-0.424	-0.212	-0.061	0.167	0.036	0.048	-0.800
April	0.200	-0.053	0.617	-0.690	0.100	0.233	-0.250	0.183	-0.536	0.183	-0.433	-0.243	-0.176	0.832**	0.619	0.048	-0.142	-0.030
May	-0.250	0.000	0.575	-0.190	0.643	0.286	-0.750	-0.143	-0.259	-0.238	-0.405	-0.286	-0.310	0.395	0.262	-0.086	-0.357	0.775
June	-0.214	0.231	0.216	-0.429	-0.250	-0.143	-0.964****	-0.252	-0.509	-0.571	-0.714	0.252	-0.643	0.357	0.393	-0.214	0.214	-0.105
July	-0.321	-0.055	0.202	-0.036	0.183	-0.342	-0.685	-0.536	-0.396	0.033	0.233	0.286	-0.510	0.477	-0.167	-0.636	0.286	-0.500
August	-0.500	0.694	0.787**	-0.318	-0.433	-0.767*	-0.983****	-0.762*	-0.840***	-0.700*	-0.917****	0.533	0.160	0.678	0.643	-0.190	0.653	-0.224
September	-0.810*	0.522	0.500	-0.544	0.483	-0.524	-0.857**	0.126	-0.477	-0.533	-0.733*	0.275	0.183	-0.202	-0.310	-0.192	0.383	0.447
October	-0.183	0.743*	0.300	-0.233	0.050	-0.134	-0.800**	0.126	-0.477	-0.283	-0.350	0.417	0.017	0.546	0.405	0.000	0.317	0.707
November	-0.283	0.403	0.612	-0.263	0.297	0.083	-0.567	-0.234	-0.792**	-0.383	-0.467	0.167	-0.243	0.425	-0.358	0.024	-0.033	0.316
December	-0.214	0.234	0.086	-0.357	0.190	0.143	-0.452	0.095	-0.599	0.132	0.071	0.071	-0.180	0.750	0.607	0.714	-0.024	-0.800

Pos	1	8	12	0	9	5	0	3	7	4	8	0	12	9	3	7	5	7	6	4	
Neg	11	4	0	0	12	7	12	9	3	8	8	0	9	12	9	5	5	7	6	7	
Trend	neg	trend	pos	trend	neg	trend	neg	trend	neg	trend	no	trend	neg	trend	no	trend	no	trend	no	trend	no

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	-0.229	-	-	0.504	0.247	-0.434	0.262	-0.169	-0.206	0.786*	0.504	0.126	-0.577	-0.447	-0.357	0.089	-0.422
February	-0.201	0.418	0.693*	0.570	-0.293	-0.380	-0.134	-0.252	-0.089	0.212	0.453	0.405	0.383	-0.949	-0.413	0.562	-0.579
March	-0.554	-	-	0.056	-0.426	-0.352	-0.405	-0.878	-0.233	0.167	0.436	-0.454	-0.627	0.866	-0.238	-0.330	-0.180
April	-0.068	-	-	-	0.615	0.017	-0.594	-0.913****	0.474	-0.467	0.207	-	0.183	0.316	0.150	0.688	-0.529
May	-0.509	-	-	0.433	0.204	-0.487	0.000	-0.828	-0.144	0.393	-0.612	-0.045	-0.037	-	-0.036	0.401	-0.577
June	-0.073	-0.612	-	-0.418	-0.267	-0.704	0.250	-0.828	0.267	-0.286	-0.158	-0.612	-0.612	0.447	-0.321	0.236	-0.433
July	-0.371	-	-	-	-0.418	-0.811*	0.357	-0.828	-0.359	0.220	0.791*	-0.612	-0.040	0.000	-0.321	-0.150	0.709
August	0.306	-	-	0.311	-0.083	-0.271	0.711*	-0.878	0.076	0.617	-0.258	0.548	0.238	0.447	-0.850***	-0.316	0.443
September	0.060	-	-	0.169	0.770*	0.012	0.551	-0.866*	-0.426	0.238	0.507	0.056	-	-	-0.731	0.794*	0.247
October	0.160	-	-	0.000	-0.071	0.373	0.517	-0.632	0.507	0.467	-0.229	-0.040	-0.596	-	-0.034	0.218	0.610
November	-0.084	0.548	-	0.577	0.732	-0.310	0.036	0.134	0.115	-0.120	0.378	0.000	0.031	-0.775	0.108	0.077	-0.393
December	-0.209	-	-	0.218	0.225	-0.410	-0.048	0.655	0.332	0.119	0.394	0.394	0.225	-	-0.024	0.381	-0.443

Pos	3	3	2	9	6	3	8	2	6	9	8	6	5	5	2	9	4	
Neg	9	0	0	1	6	9	4	10	6	3	4	5	6	3	10	3	8	
Trend	no	trend	-	pos	trend	no	trend	neg	trend	no	trend	no	trend	no	neg	trend	no	trend



**Crabbe's River- NF02ZA0007**  
**Spearman Rank Correlation Coefficients for Monthly Means**

.. significant at 0.05 level  
 \*\*\* significant at 0.02 level  
 \*\*\*\* significant at 0.01 level  
 \*\*\*\*\* significant at 0.005 level

	CONDL	COLORA	TURB	O2D	PHL	CAD	NAD	MGD	KD	SOMC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January	-0.442	-0.055	-0.127	-0.415	0.224	-0.617	-0.643	-0.402	-0.619	-0.539	-0.333	-0.103	0.231	-0.714*	-0.333	-0.212	-0.055	0.347
February	-0.238	-0.296	0.357	-0.429	0.554	-0.204	-0.071	-0.214	-0.275	-0.310	-0.071	-0.826*	-0.071	-0.313	-0.214	0.333	0.119	-0.447
March	-0.214	-0.281	0.571	-0.371	0.452	0.071	-0.071	0.036	-0.071	0.000	0.119	-0.659	0.214	-0.146	0.214	-0.071	0.286	-0.894
April	-0.139	-0.579	0.285	-0.901**	0.382	-0.055	-0.550	-0.061	-0.533	-0.091	-0.067	-0.778**	-0.564	-0.596	-0.661	-0.127	-0.474	-0.350
May	-0.214	-0.193	0.429	-0.353	0.107	-0.179	-0.464	-0.523	-0.577	-0.714	-0.414	-0.685	-0.571	-0.571	-0.536	-0.536	-0.571	0.000
June	0.200	-0.265	-0.086	-0.371	0.371	0.200	0.314	0.200	0.200	0.200	0.371	-0.086	-0.200	0.377	-0.200	0.771	0.086	0.632
July	0.143	0.000	0.657	0.667	0.314	0.371	-0.029	0.371	0.086	0.543	-0.029	-0.600	-0.200	-0.395	-0.314	0.486	0.000	-
August	0.048	0.292	0.667	-0.850**	0.071	-0.071	0.048	-0.071	-0.120	0.048	0.071	0.024	-0.275	-0.096	-0.500	-0.714	0.167	-0.112
September	-0.190	0.434	0.571	-0.012	0.333	-0.262	-0.190	-0.190	-0.168	-0.238	-0.238	0.238	0.132	-0.132	0.036	0.095	0.238	-0.354
October	-0.214	-0.250	0.347	0.036	-0.024	-0.214	-0.262	-0.299	-0.262	-0.238	-0.262	-0.144	-0.263	-0.374	0.071	-0.190	-0.071	-0.577
November	-0.262	-0.482	0.119	0.310	0.548	-0.381	-0.405	-0.024	-0.619	-0.381	-0.095	-0.419	-0.381	0.217	-0.964****	-0.383	-0.667	-0.527
December	0.657	-0.463	-0.086	-0.667	0.857*	0.714	0.714	0.857*	0.714	0.321	0.571	-0.377	-0.571	0.377	0.143	0.750	-0.393	0.258
Pos	4	3	3	9	11	4	3	4	3	5	4	2	3	3	4	5	6	4
Neg	8	9	3	9	1	8	9	8	9	7	8	10	9	9	8	7	6	7
Trend	no trend	neg trend	pos trend	neg trend	pos trend	no trend	neg trend	no trend	neg trend	no trend	no trend	neg trend	neg trend	neg trend	no trend	no trend	no trend	no trend

  

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MINT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	-0.527	0.696*	0.494	0.632	0.105	-0.524	0.091	-0.229	-0.545	0.359	0.569	0.521	0.363	-0.775	-0.442	0.150	0.067
February	0.168	-	-0.126	0.170	0.356	0.240	0.381	-0.794*	0.727	0.476	0.504	0.196	-0.409	0.258	-0.238	0.209	0.410
March	0.359	-	0.082	0.450	-0.096	-0.095	0.286	-0.054	0.506	0.667	-0.143	0.229	0.073	-	-0.071	0.431	0.143
April	-0.261	0.315	0.180	-0.344	-0.006	-0.529	-0.467	-0.367	0.080	-0.370	0.583	0.267	0.349	-0.105	-0.067	-0.200	-0.474
May	-0.505	-	-0.316	0.458	-0.430	-0.371	-0.536	-0.756	0.259	-0.250	-0.316	-0.346	-0.733	-0.775	-0.214	-0.218	-0.429
June	0.371	-	0.655	-0.029	0.525	-0.058	-0.029	0.169	-0.580	-0.029	0.621	0.778	0.093	-0.258	0.200	-0.207	-0.530
July	0.371	-	0.393	0.393	0.439	-0.338	-0.086	-0.030	0.247	-0.086	0.683	-0.207	0.683	-0.738	0.371	-0.359	0.759
August	-0.048	-	-	-	0.261	-0.577	-0.286	0.060	0.216	0.000	0.340	0.562	-0.218	0.211	0.071	0.014	-0.195
September	-0.071	-	0.082	0.443	0.756*	-0.417	0.381	-0.866	-0.217	0.619	0.154	0.098	-0.593	-0.258	-0.143	-0.055	0.120
October	-0.539	-	-	-0.170	-0.605	-0.241	-0.143	0.802*	-0.191	0.071	0.504	-0.717	-0.614	-0.775	-0.167	-0.250	-0.195
November	-0.548	-	-0.378	0.144	-0.896**	-0.393	-0.750	-0.279	0.120	0.357	0.474	-0.591	-0.493	-0.775	-0.357	-0.637	0.579
December	0.786*	-	-	-0.144	-0.538	-0.436	-0.613	0.169	0.852*	-0.393	0.474	-0.694	-0.709	-	0.786*	-0.694	-0.613
Pos	5	7	6	7	6	1	4	4	8	7	10	7	5	2	4	4	6
Neg	7	4	3	4	6	11	8	8	4	5	2	5	7	8	8	8	6
Trend	no trend	no trend	no trend	no trend	no trend	neg trend	no trend	no trend	no trend	no trend	pos trend	no trend	no trend	neg trend	no trend	no trend	no trend

**South Branch River- NF02ZA0001**  
**Spearman Rank Correlation Coefficients for Monthly Means**

\* significant at 0.05 level  
 \*\* significant at 0.02 level  
 \*\*\* significant at 0.01 level  
 \*\*\*\* significant at 0.005 level

	CONDL	COLORA	TURB	O2D	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January	-0.467	-0.044	0.006	-0.405	-0.127	-0.745**	-0.417	-0.333	-0.510	-0.745**	-0.248	-0.255	-0.418	0.588	0.588	-0.550	0.304	0.000
February	-0.079	0.114	0.321	-0.262	0.043	-0.588	0.188	-0.964****	-0.763**	-0.345	0.139	-0.183	0.280	0.013	-0.285	-0.833***	0.146	-0.123
March	-0.633	0.162	0.567	-0.108	-0.310	-0.450	-0.600	-0.433	-0.393	-0.367	-0.350	0.142	-0.033	-0.250	-0.048	0.095	0.167	-0.527
April	-0.248	0.271	0.517	-0.144	-0.201	-0.164	-0.273	-0.176	-0.322	-0.285	-0.224	-0.578	-0.348	0.158	-0.250	-0.233	0.127	-0.270
May	-0.190	-0.192	0.289	0.286	-0.048	-0.262	-0.310	-0.143	-0.192	-0.479	-0.167	-0.551	-0.348	0.036	0.143	-0.321	-0.024	-
June	-0.571	0.018	0.324	0.536	-0.071	-0.357	-0.500	-0.357	-0.523	-0.500	-0.571	-0.090	-0.090	-0.162	-0.107	0.029	0.071	-0.258
July	-0.286	0.250	0.342	0.643	0.321	-0.286	-0.357	-0.357	-0.357	-0.286	-0.286	-0.090	-0.036	-0.643	-0.288	-0.107	0.250	-
August	-0.300	0.244	0.628	-0.259	-0.117	-0.483	-0.200	-0.450	-0.417	-0.200	-0.100	-0.033	0.133	-0.017	-0.429	-0.714	0.033	-0.158
September	-0.096	0.168	0.548	-0.071	0.167	-0.095	-0.429	-0.048	-0.286	0.000	0.000	0.095	0.119	0.136	0.036	0.214	0.167	-0.289
October	-0.183	0.069	0.800**	-0.356	-0.167	-0.250	-0.250	-0.300	-0.200	-0.183	0.050	0.234	-0.434	0.695	-0.018	0.024	-0.017	0.000
November	-0.067	-0.511	0.301	0.350	0.233	-0.350	-0.117	0.000	-0.244	-0.318	-0.117	-0.800**	-0.276	0.723*	-0.262	-0.071	-0.477	0.354
December	-0.214	0.192	0.455	-0.386	0.317	0.117	-0.067	0.134	-0.042	0.233	0.067	0.048	-0.367	0.095	0.238	0.333	-0.351	0.000

	Pos	0	9	12	4	5	7	1	1	1	2	0	0	2	4	4	4	4	4
Neg	12	3	0	8	8	8	10	10	10	10	10	12	8	10	8	8	8	8	8
Trend	neg trend	pos trend	pos trend	pos trend	no trend	no trend	neg trend	neg trend	neg trend	neg trend	neg trend	neg trend	neg trend	neg trend	no trend	no trend	no trend	no trend	no trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	-0.305	0.522	0.522	0.182	0.086	0.117	-0.042	-0.378	0.031	0.455	0.292	0.247	-0.068	-0.775	-0.456	0.041	0.067
February	0.195	0.522	0.522	0.035	0.000	-0.172	-0.176	-0.507	0.247	0.742*	0.494	0.019	-0.459	-0.447	-0.515	0.142	0.128
March	-0.117	-	0.087	0.091	0.050	-0.293	0.117	-0.599	-0.268	0.683	0.408	0.279	-0.656	-0.866	-0.300	-0.306	-0.300
April	0.188	0.522	0.142	-0.317	0.482	0.232	0.122	-0.697	-0.193	0.097	-0.243	0.526	0.487	0.632	-0.018	0.388	-0.207
May	-0.204	-	-0.218	0.327	-0.145	-0.072	0.429	-0.598	-0.430	0.286	-0.504	-0.241	-0.195	0.258	-0.143	-0.120	-0.429
June	-0.234	-	-	0.144	-0.459	-0.321	0.000	-0.655	-0.487	0.306	0.408	0.598	0.039	0.775	-0.357	-0.158	0.180
July	-0.357	-	0.000	-0.193	-0.159	-0.837*	0.250	0.655	-0.630	0.750	-0.299	0.281	0.020	-0.316	-0.324	-0.668	0.198
August	-0.345	-	-	0.186	-0.511	-0.712*	-0.067	-0.791*	0.062	0.700*	-0.319	-0.286	-0.566	0.447	-0.233	-0.563	0.017
September	-0.428	-	-0.378	0.096	0.158	0.204	0.167	0.134	-0.464	0.738*	-0.577	-0.217	-0.436	0.775	-0.143	-0.250	0.407
October	-0.500	-	-	0.000	0.499	0.400	0.033	0.030	-0.816**	0.317	0.518	0.498	0.378	-0.775	-0.250	0.224	-0.050
November	-0.335	-	-0.411	0.394	-0.741*	-0.711	-0.714	-0.866*	-0.520	0.527	-0.733	-0.764*	-0.851**	-0.775	0.084	-0.753*	0.037
December	0.133	-	-	-0.160	0.053	-0.264	-0.492	-0.866*	0.280	0.707	0.137	-0.806**	-0.436	0.000	0.233	-0.298	-0.293

	Pos	3	3	9	7	4	7	3	4	12	6	7	4	6	2	4	7
Neg	9	0	3	3	5	8	5	9	8	0	6	5	8	6	10	8	5
Trend	neg trend	neg trend	no trend	pos trend	no trend	no trend	no trend	neg trend	no trend	pos trend	no trend	no trend	no trend	no trend	neg trend	no trend	no trend

**Grand Codroy River- NF02ZA0006**

**Spearman Rank Correlation Coefficients for Monthly Means**

- \* significant at 0.05 level
- \*\* significant at 0.02 level
- \*\*\* significant at 0.01 level
- \*\*\*\* significant at 0.005 level

	CONDL	COLORA	TURB	O2D	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January	-0.436	0.507	0.155	0.036	0.301	-0.612	-0.733**	-0.693*	-0.632*	-0.355	-0.500	0.287	-0.159	-0.515	-0.418	-0.182	0.055	-0.231
February	-0.314	-0.221	0.553	-0.222	-0.018	-0.373	-0.669*	0.059	-0.183	-0.369	-0.809***	-0.220	0.383	-0.041	0.009	0.079	0.082	-0.100
March	-0.479	0.359	0.685*	0.076	-0.285	-0.624	-0.564	-0.576	-0.576	-0.588	-0.503	0.267	-0.042	-0.377	-0.317	-0.133	0.467	-0.655
April	-0.264	-0.314	0.369	-0.108	0.082	-0.145	-0.576	0.109	-0.492	-0.159	-0.564	-0.594	-0.164	-0.586	-0.127	0.358	0.155	-0.472
May	-0.429	-0.165	0.228	-0.036	-0.286	-0.595	-0.500	-0.048	-0.442	-0.048	-0.357	-0.590	-0.381	0.133	0.347	0.750	-0.143	-0.354
June	-0.500	0.097	0.503	0.000	-0.190	-0.500	-0.214	-0.143	-0.095	-0.333	-0.143	0.168	0.036	0.253	0.036	0.393	0.095	0.000
July	-0.280	0.334	0.691	0.357	0.000	-0.198	-0.286	-0.250	-0.270	-0.107	-0.286	-0.270	0.036	-0.126	0.179	0.357	0.055	-0.258
August	-0.300	0.068	0.351	-0.420	-0.126	-0.300	-0.300	-0.267	-0.333	-0.217	-0.150	0.050	-0.117	-0.494	-0.393	-0.548	-0.067	-0.158
September	-0.143	0.275	0.738*	0.429	0.143	-0.267	-0.357	-0.071	-0.299	-0.143	-0.167	0.228	0.095	-0.036	0.179	0.286	0.310	0.112
October	-0.267	0.051	0.550	-0.090	0.100	-0.267	-0.333	-0.243	-0.310	-0.350	-0.583	0.083	-0.025	0.828**	-0.179	0.786*	0.350	-0.354
November	-0.586	-0.053	-0.017	0.217	0.433	-0.867****	-0.417	-0.233	-0.435	-0.817**	-0.133	-0.134	-0.359	0.276	-0.310	0.802*	-0.067	-0.359
December	-0.429	0.469	0.619	-0.143	0.217	0.067	-0.083	0.176	-0.117	0.100	0.000	0.228	-0.183	-0.252	-0.143	0.429	-0.200	0.000

Pos 0 8 4 11 6 6 7 1 0 3 0 1 1 3 4 5 7 8 9 3

Neg 12 4 1 1 6 6 5 11 12 9 12 11 5 9 8 7 3 4 8 9

Trend neg trend no trend no trend no trend no trend neg trend neg trend neg trend no trend no trend pos trend no trend no trend neg trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	-0.455	0.522	0.516	0.387	-0.349	-0.795***	0.027	0.133	-0.746**	-0.309	0.402	0.085	-0.254	-0.258	-0.418	-0.274	-0.455
February	-0.173	0.671*	-0.153	-0.199	-0.370	-0.604	-0.036	-0.436	-0.139	-0.260	-0.060	-0.042	-0.439	-	-0.411	-0.385	-0.083
March	-0.564	-0.058	-0.435	0.255	-0.273	0.031	0.212	-0.326	-0.388	-0.152	0.496	0.604	-0.078	-	-0.564	0.104	-0.293
April	-0.227	0.371	0.330	-0.100	0.354	-0.228	-0.018	-0.190	0.277	-0.155	0.678*	0.476	0.363	-0.105	-0.173	0.363	0.110
May	-0.228	-	0.252	0.098	-0.289	-0.084	-0.357	-0.694	-0.528	-0.286	0.577	-0.024	-0.630	-	-0.595	-0.073	-0.524
June	-0.167	-	0.247	0.535	0.250	-0.265	0.048	-0.866*	0.000	-0.132	0.756*	0.843**	0.110	0.775	-0.500	0.872**	0.135
July	-0.214	-0.791*	-0.791*	-0.540	-0.020	-0.523	0.179	-0.278	0.296	-0.143	-0.204	-0.617	-0.926**	-0.258	-0.107	-0.089	-0.072
August	-0.300	0.274	0.274	-0.274	-0.914****	-0.117	0.017	0.401	0.140	-0.150	-0.385	-0.494	-0.402	0.632	-0.300	-0.578	0.247
September	-0.238	-0.577	-0.378	0.426	0.073	0.714	0.310	-0.116	-0.195	0.286	0.038	0.012	-0.464	0.316	-0.190	-0.012	0.347
October	-0.283	-0.311	-0.274	-0.168	0.321	0.690	0.200	0.019	0.254	0.017	0.053	0.496	-0.303	-0.949	-0.267	0.538	-0.133
November	-0.600	0.274	0.274	0.179	-0.682	-0.755*	-0.405	-0.019	0.153	-0.214	0.845**	0.192	-0.476	-0.632	-0.929****	-0.391	0.444
December	0.150	-	-0.137	-0.343	-0.219	-0.695	-0.167	0.433	0.231	-0.300	0.374	-0.079	-0.366	0.775	-0.109	-0.089	-0.244

Pos 1 5 6 6 4 4 3 7 4 7 2 9 7 2 4 0 4 5

Neg 11 4 6 6 8 8 9 5 8 5 10 3 5 10 5 12 8 7

Trend neg trend no trend no trend no trend no trend no trend no trend no trend neg trend no trend no trend no trend no trend







**Grey River- NF0ZD0003**  
**Spearman Rank Correlation Coefficients for Monthly Means**

\* significant at 0.05 level  
 \*\* significant at 0.02 level  
 \*\*\* significant at 0.01 level  
 \*\*\*\* significant at 0.005 level

	CONDL	COLORA	TURB	O2D	PHL	CAD	NAD	MGD	KD	SO4IC	CLD	FD	DOC	PT	NO3NO2	NT	SID	ALT	AST
January	-0.494	0.393	-0.527	-	0.226	0.268	-0.544	-0.569	-0.802*	-0.407	-0.144	0.000	0.286	0.420	-0.638	-0.133	0.371	-	-0.845
February	-0.720*	-0.025	0.017	-	-0.874****	-0.550	-0.381	-0.603	-0.455	-0.669	-0.400	-0.316	0.214	-0.285	-0.874****	-0.700*	-0.600	-	-0.655
March	0.083	-0.527	-0.383	-	0.254	0.167	-0.033	0.050	0.203	0.159	0.050	-	-0.147	0.702	0.101	-0.265	-0.738	-	-0.612
April	-0.793*	0.613	0.207	-	-0.148	-0.600	-0.679	-0.607	-0.541	-0.657	-0.901**	0.707	0.143	0.112	-0.073	0.500	-0.029	-	-0.775
May	-0.917****	0.683	0.703	-	-0.603	-0.800**	-0.783*	-0.765*	-0.805*	-0.627	-0.650	0.527	0.036	0.427	-0.093	-0.167	-0.500	-	-0.359
June	-0.381	0.217	-0.563	-	-0.048	0.000	-0.222	-0.144	-0.360	-0.090	-0.360	-0.894	-0.108	-0.049	-0.185	-0.262	-0.100	-	0.707
July	1	4	3	-	2	3	0	1	1	1	1	3	4	4	1	1	1	-	1
August	5	2	3	-	4	3	6	5	5	5	5	2	2	2	5	5	5	-	5
September	neg trend	no trend	no trend	-	no trend	no trend	neg trend	neg trend	neg trend	no trend	neg trend	no trend	no trend	no trend	neg trend	neg trend	no trend	-	neg trend
October																			
November																			
December																			

Pos  
 Neg  
 Trend

	BAT	BET	CDT	COT	CRT	CUT	FET	HGT	LIT	MNT	MOT	NIT	PBT	SET	SRT	VT	ZNT
January	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
February	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
March	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
April	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
June	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
July	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
August	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
September	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
October	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
November	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
December	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Pos  
 Neg  
 Trend