Table 4-7: Total Suspended Solids Correlation Results

Station and Season	S01-Wet		S02-Wet		S10-Wet		S13-Wet		S14-Wet	
Sample Size or Correlation Coefficient	**N**	**CORR**	**N**	**CORR**	**N**	**CORR**	**N**	**CORR**	**N**	**CORR**
Alkalinity as $CaCO_3$	7	0.179	6	-0.086	8	0.240	7	0.955	5	0.400
Aluminum	7	-0.036	6	0.714	8	0.548	8	0.750	5	1.000
Ammonia	7	-0.252	6	-0.543	8	-0.252	8	-0.143	5	0.300
Antimony	7	0.000	6	0.143	8	0.000	8	0.250	5	0.800
Arsenic	7	0.000	6	0.029	8	0.071	8	0.214	5	0.600
Barium	7	-0.036	6	0.600	8	0.524	8	0.750	5	1.000
BioChemical Oxygen Demand (Five-day)	7	-0.143	6	0.086	8	0.214	7	0.286	5	1.000
Cadmium	7	-0.143	6	0.657	8	0.595	8	0.630	5	0.900
Chemical Oxygen Demand	7	-0.143	6	0.334	8	-0.024	8	0.360	5	0.872
Chloride	7	0.250	6	-0.116	8	0.262	8	0.571	5	0.000
Chromium	7	-0.071	6	0.886	8	0.452	8	0.750	5	0.900
Chromium, Hexavalent	0	NA	0	NA	0	NA	0	NA	0	NA
Copper	7	-0.071	6	0.429	8	0.333	8	0.607	5	0.900
Cyanide	0	NA	0	NA	7	0.306	6	0.638	5	0.800
Dissolved Aluminum	7	0.107	6	0.319	8	0.286	8	0.536	5	0.900
Dissolved Antimony	7	-0.107	6	0.030	8	-0.357	8	0.250	5	0.300
Dissolved Arsenic	7	-0.214	6	0.319	8	-0.156	8	0.393	5	0.600
Dissolved Barium	7	0.107	6	-0.600	8	0.262	8	0.607	5	0.700
Dissolved Cadmium	7	0.144	6	-0.116	8	0.595	8	0.593	0	NA
Dissolved Chromium	7	0.071	6	-0.086	8	0.539	8	0.750	5	0.700
Dissolved Chromium, Hexavalent	0	NA	0	NA	0	NA	0	NA	0	NA
Dissolved Copper	7	0.000	6	-0.371	8	0.071	8	0.464	5	0.800
Dissolved Iron	7	0.357	6	-0.371	8	0.323	8	0.595	5	0.900
Dissolved Lead	7	-0.071	0	NA	8	0.238	8	0.679	5	0.900
Dissolved Nickel	7	-0.071	6	-0.086	8	0.167	8	0.786	5	0.900
Dissolved Oxygen	6	0.143	5	-0.100	7	0.429	6	0.771	5	-0.316
Dissolved Phosphorus	7	-0.250	6	0.257	8	-0.095	8	0.536	5	-0.100
Dissolved Selenium	0	NA	6	-0.086	0	NA	0	NA	0	NA
Dissolved Silver	0	NA	0	NA	0	NA	0	NA	0	NA
Dissolved Zinc	7	-0.357	6	-0.371	8	0.323	8	0.607	5	0.900
E. coli	6	0.257	5	0.600	7	-0.321	6	0.943	5	0.200
Endosulfan I (alpha)	0	NA	0	NA	0	NA	0	NA	0	NA
Fecal Coliform	6	-0.174	5	0.600	7	-0.559	6	-0.086	5	0.200
Fecal Enterococcus	6	-0.559	5	0.600	7	-0.500	6	0.812	5	0.800
Fecal Streptococcus	6	-0.464	5	0.800	7	-0.414	6	0.812	5	0.949
Fluoride	7	-0.071	6	-0.029	8	0.357	8	0.607	5	0.200
Glyphosate	0	NA	0	NA	0	NA	8	0.185	0	NA
Hardness as $CaCO_3$	7	0.108	6	0.435	8	0.262	7	0.714	5	0.359
Iron	7	-0.071	6	0.657	8	0.548	8	0.750	5	1.000
Kjeldahl-N	7	-0.071	6	0.143	8	-0.167	8	0.143	5	0.500
Lead	7	-0.214	6	0.314	8	0.214	8	0.750	5	1.000
Methylene Blue Active Substances	7	-0.214	0	NA	8	-0.143	7	-0.143	5	0.700
NH_3-N	7	-0.252	6	-0.543	8	-0.252	7	-0.143	5	0.300
Nickel	7	0.107	6	0.257	8	0.286	8	0.750	5	0.900
Nitrate (NO_3)	7	0.000	6	-0.257	8	0.286	7	0.571	5	0.154
Nitrate-N	7	0.000	6	-0.257	8	0.286	7	0.571	5	0.154
Nitrite-N	0	NA	0	NA	8	0.287	0	NA	0	NA
Oil and Grease	0	NA	0	NA	0	NA	0	NA	0	NA
pH	7	-0.108	6	-0.543	8	0.429	7	0.505	5	-0.300
Phosphorus-Total (as P)	7	-0.270	6	-0.116	8	0.024	8	0.393	5	0.100
Selenium	0	NA	6	0.257	0	NA	0	NA	0	NA
Silver	7	-0.643	0	NA	0	NA	0	NA	0	NA
Specific Conductance	7	0.107	6	0.200	8	0.310	8	0.536	5	0.300
Sulfate	7	0.250	6	0.200	8	0.286	8	0.429	5	0.200
Thallium	0	NA	0	NA	0	NA	0	NA	0	NA
Total Coliform	6	-0.213	5	0.500	7	-0.829	6	0.655	5	0.316
Total Dissolved Solids	7	0.250	6	0.429	8	0.262	7	0.714	5	0.400
Total Organic Carbon	7	-0.429	6	0.257	8	-0.214	8	0.321	5	0.500
Turbidity	7	0.071	6	0.257	8	-0.714	7	-0.429	5	0.700
Volatile Suspended Solids	7	0.857	6	0.771	8	0.548	7	0.964	5	0.900
Zinc	7	-0.357	6	-0.200	8	0.286	8	0.607	5	0.900

NA= Not included in the Analysis

Significantly correlated with alpha=0.1 (two sided)

Table 4-7: Total Suspended Solids Correlation Results

Station and Season	S28-Wet		S29-Wet		TS25-Wet		TS26-Wet	
Sample Size or Correlation Coefficient	**N**	**CORR**	**N**	**CORR**	**N**	**CORR**	**N**	**CORR**
Alkalinity as $CaCO_3$	8	0.405	4	-0.800	6	0.600	6	-0.600
Aluminum	8	0.204	4	1.000	6	0.486	7	0.771
Ammonia	8	-0.144	4	1.000	6	-0.086	7	0.829
Antimony	8	0.299	4	-0.800	6	0.543	7	0.771
Arsenic	8	-0.192	4	0.800	6	0.714	7	0.257
Barium	8	0.311	4	0.800	6	0.371	7	0.371
BioChemical Oxygen Demand (Five-day)	8	0.551	4	0.800	6	0.886	6	0.771
Cadmium	8	0.335	4	0.800	6	0.829	7	0.714
Chemical Oxygen Demand	8	0.371	4	1.000	6	0.200	7	0.371
Chloride	8	0.611	4	-0.800	6	0.714	7	-0.429
Chromium	8	0.084	4	1.000	6	0.371	7	0.486
Chromium, Hexavalent	0	NA	4	0.200	6	-0.030	6	0.091
Copper	8	0.335	4	0.800	6	0.543	7	0.486
Cyanide	0	NA	0	NA	0	NA	0	NA
Dissolved Aluminum	8	0.431	4	0.400	6	0.086	7	0.771
Dissolved Antimony	8	0.347	4	-0.800	6	0.543	7	0.657
Dissolved Arsenic	8	-0.301	4	-1.000	6	0.371	7	0.406
Dissolved Barium	8	0.431	4	-0.800	6	0.600	7	0.314
Dissolved Cadmium	8	0.466	4	-0.800	6	0.943	7	0.829
Dissolved Chromium	8	0.467	4	0.400	6	0.371	7	0.257
Dissolved Chromium, Hexavalent	0	NA	4	0.200	6	-0.030	6	0.091
Dissolved Copper	8	0.683	4	-0.400	6	0.371	7	0.143
Dissolved Iron	8	0.467	4	1.000	6	0.371	7	0.829
Dissolved Lead	8	0.359	4	0.400	6	0.257	7	0.943
Dissolved Nickel	8	0.335	4	-0.800	6	0.543	7	0.314
Dissolved Oxygen	7	-0.108	4	0.316	5	-0.600	5	0.100
Dissolved Phosphorus	8	0.671	4	0.600	6	0.086	7	0.371
Dissolved Selenium	0	NA	4	-0.800	6	0.486	7	-0.543
Dissolved Silver	0	NA	0	NA	0	NA	0	NA
Dissolved Zinc	8	0.311	4	-0.200	6	0.371	7	0.257
E. coli	7	0.180	4	0.316	5	-0.200	5	0.700
Endosulfan I (alpha)	0	NA	4	-0.600	6	-0.030	6	-0.213
Fecal Coliform	7	-0.270	4	0.316	5	-0.200	5	0.400
Fecal Enterococcus	7	-0.345	4	0.400	5	0.200	5	0.447
Fecal Streptococcus	7	-0.345	4	0.400	5	0.200	5	0.447
Fluoride	8	0.515	4	-0.800	6	0.371	7	0.058
Glyphosate	8	0.540	4	0.316	6	-0.152	7	-0.058
Hardness as $CaCO_3$	8	0.626	4	-0.800	6	0.771	6	-0.429
Iron	8	0.240	4	1.000	6	0.486	7	0.771
Kjeldahl-N	8	0.084	4	0.400	6	0.657	7	0.600
Lead	8	0.240	4	1.000	6	0.771	7	0.943
Methylene Blue Active Substances	8	0.120	4	-0.400	6	-0.429	6	0.486
NH_3-N	8	-0.144	4	1.000	6	-0.086	6	0.812
Nickel	8	0.335	4	0.400	6	0.543	7	0.257
Nitrate (NO_3)	8	0.467	4	-0.400	6	-0.086	6	0.257
Nitrate-N	8	0.467	4	-0.400	6	-0.086	6	0.371
Nitrite-N	0	NA	0	NA	0	NA	0	NA
Oil and Grease	0	NA	4	0.738	0	NA	5	-0.051
pH	8	0.563	4	0.000	6	0.771	6	-0.029
Phosphorus-Total (as P)	8	0.671	4	-0.400	6	-0.086	7	0.522
Selenium	0	NA	4	-0.800	6	0.543	7	-0.086
Silver	0	NA	4	1.000	6	0.638	0	NA
Specific Conductance	8	0.587	4	-0.800	6	0.771	7	0.429
Sulfate	8	0.587	4	-0.800	6	0.771	7	-0.429
Thallium	0	NA	4	0.949	0	NA	0	NA
Total Coliform	7	-0.206	4	-0.200	5	0.447	5	-0.154
Total Dissolved Solids	8	0.506	4	-0.800	6	0.771	6	-0.429
Total Organic Carbon	8	0.311	4	0.400	6	0.371	7	0.600
Turbidity	8	0.240	4	1.000	6	-0.086	6	0.086
Volatile Suspended Solids	8	0.994	4	1.000	6	0.829	6	1.000
Zinc	8	0.335	4	0.800	6	0.429	7	0.714

NA= Not included in the Analysis

Significantly correlated with alpha=0.1 (two sided)

Table 4-7: Total Suspended Solids Correlation Results

Station and Season	TS27-Wet		TS28-Wet		TS29-Wet		TS30-Wet	
Sample Size or Correlation Coefficient	**N**	**CORR**	**N**	**CORR**	**N**	**CORR**	**N**	**CORR**
Alkalinity as $CaCO_3$	6	-0.314	6	0.086	6	-0.371	6	0.771
Aluminum	6	1.000	7	0.029	6	0.829	6	0.257
Ammonia	6	0.812	7	0.257	6	-0.371	6	0.029
Antimony	6	0.943	7	0.371	6	0.086	6	0.200
Arsenic	6	0.657	7	0.771	6	0.200	6	0.543
Barium	6	0.943	7	0.086	6	0.371	6	0.429
BioChemical Oxygen Demand (Five-day)	6	0.029	6	0.714	6	0.943	6	0.143
Cadmium	6	0.943	7	0.486	6	0.943	6	0.314
Chemical Oxygen Demand	6	-0.058	7	-0.143	6	0.143	6	-0.657
Chloride	6	0.203	7	0.429	6	-0.257	6	0.600
Chromium	6	0.829	7	0.314	6	0.257	6	0.371
Chromium, Hexavalent	0	NA	0	NA	0	NA	0	NA
Copper	6	0.886	7	0.543	6	0.257	6	0.371
Cyanide	0	NA	0	NA	0	NA	0	NA
Dissolved Aluminum	6	0.886	7	0.371	6	0.086	6	0.543
Dissolved Antimony	6	0.657	7	0.314	6	-0.435	6	0.086
Dissolved Arsenic	6	0.348	7	0.143	6	0.371	6	0.464
Dissolved Barium	6	0.714	7	0.371	6	0.257	6	0.829
Dissolved Cadmium	6	0.829	7	0.314	6	0.314	6	0.886
Dissolved Chromium	6	0.314	7	0.543	6	-0.029	6	0.257
Dissolved Chromium, Hexavalent	0	NA	0	NA	0	NA	0	NA
Dissolved Copper	6	0.600	7	0.314	6	0.200	6	0.486
Dissolved Iron	6	0.486	7	0.371	6	0.486	6	0.543
Dissolved Lead	6	0.551	7	0.058	6	0.486	6	0.543
Dissolved Nickel	6	0.486	7	0.600	6	0.200	6	0.771
Dissolved Oxygen	5	0.300	5	0.300	5	-0.700	5	0.600
Dissolved Phosphorus	6	0.600	7	0.257	6	0.493	6	0.145
Dissolved Selenium	6	0.086	7	0.429	6	-0.829	6	0.714
Dissolved Silver	6	-0.516	0	NA	0	NA	0	NA
Dissolved Zinc	6	0.771	7	0.314	6	0.086	6	0.543
E. coli	5	-0.154	5	0.000	5	1.000	5	0.300
Endosulfan I (alpha)	6	-0.334	6	-0.698	6	-0.062	6	-0.698
Fecal Coliform	5	-0.800	5	-0.103	5	0.900	5	0.872
Fecal Enterococcus	5	-0.500	5	0.205	5	0.564	5	0.205
Fecal Streptococcus	5	-0.462	5	-0.410	5	0.500	5	0.205
Fluoride	6	0.143	7	0.371	6	-0.257	6	0.657
Glyphosate	0	NA	0	NA	6	-0.091	0	NA
Hardness as $CaCO_3$	6	0.257	6	0.377	6	-0.257	6	0.771
Iron	6	0.943	7	0.200	6	0.943	6	0.429
Kjeldahl-N	6	0.257	7	0.174	6	0.086	6	-0.257
Lead	6	0.943	7	0.200	6	0.829	6	0.086
Methylene Blue Active Substances	6	0.886	6	0.493	6	0.232	6	-0.200
NH_3-N	6	0.812	6	0.174	6	-0.371	6	0.058
Nickel	6	0.829	7	0.829	6	0.257	6	0.657
Nitrate (NO_3)	6	0.771	6	0.143	6	0.771	6	0.314
Nitrate-N	6	0.406	6	0.143	6	0.771	6	0.314
Nitrite-N	0	NA	0	NA	0	NA	0	NA
Oil and Grease	0	NA	0	NA	0	NA	5	0.051
pH	6	0.058	6	-0.522	6	0.771	6	1.000
Phosphorus-Total (as P)	6	0.232	7	0.200	6	0.371	6	-0.177
Selenium	6	0.257	7	0.657	6	-0.086	6	0.714
Silver	6	0.371	0	NA	6	0.941	6	0.348
Specific Conductance	6	0.086	7	0.429	6	0.371	6	0.771
Sulfate	6	-0.314	7	-0.029	6	-0.486	6	0.771
Thallium	0	NA	0	NA	0	NA	0	NA
Total Coliform	5	0.112	5	0.359	5	0.872	5	0.564
Total Dissolved Solids	6	0.086	6	0.429	6	-0.257	6	0.771
Total Organic Carbon	6	0.771	7	0.714	6	0.174	6	0.086
Turbidity	6	-0.314	6	-0.143	6	0.429	6	-0.371
Volatile Suspended Solids	6	0.986	6	0.714	6	0.943	6	0.771
Zinc	6	0.943	7	0.314	6	0.543	6	0.429

NA= Not included in the Analysis

Significantly correlated with alpha=0.1 (two sided)