

Table 13.--Summary of the Seasonal Kendall trend test results for selected water-quality data stored in U.S. Environmental Protection Agency Storage and Retrieval System and collected for selected previous investigations in the study area--Continued

[Only results with a probability less than 0.05 are shown. The alpha significance level was 0.05. The null hypothesis tested was that there is no trend. \* indicates that trend tests were made but trends were insignificant or data were questionable; <0.001 indicates probability level less than 0.001; --, insufficient data for analysis]

Water-quality zone or location identifier (table 9) Probability (P) Trend slope (Slope) Number of observations (N) Period of record (Record)	Dissolved oxygen	pH	Alkalinity	Turbidity	Total solids	Total volatile solids	Total non-volatile solids	Suspended solids	Volatile suspended solids	Non-volatile suspended solids	Total hardness	Salinity	Dissolved chloride	Total organic carbon	Total ammonia nitrogen	Total ammonia plus organic nitrogen	Total nitrite plus nitrate	Total phosphorus	Dissolved phosphorus	Biochemical oxygen demand	Fecal streptococci	Fecal coliform	Chlorophyll-a, corrected for phaeopigments	Chlorophyll-a	
																									Pasquotank River water-quality zones
Pasquotank River water-quality zones																									
PS1																									
P	<.001	<.001	*	*	*	*	*	.010	*	*	--	.003	*	--	*	.001	.006	<.001	*	*	--	--	--	--	
Slope	.162	.059	--	--	--	--	--	-.764	--	--	--	.080	--	--	-.028	-.015	-.006	--	--	--	--	--	--		
N	252	160	95	38	76	32	32	80	33	33	19	72	49	22	92	92	91	91	32	158	6	2	12	12	
Record	1957-88	1957-88	1968-85	1980-88	1976-87	1976-85	1976-85	1976-88	1976-86	1976-86	1976-88	1970-88	1968-88	1976-83	1974-88	1974-88	1974-88	1974-88	1970-74	1974-86	1970-76	1976	1982-85	1982-85	
PS2																									
P	.002	*	*	--	*	*	*	*	*	*	--	*	*	--	*	*	*	*	--	*	--	--	--	--	
Slope	.086	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
N	210	106	78	35	54	39	39	64	41	41	15	43	45	21	65	67	66	66	0	164	8	2	9	9	
Record	1968-88	1968-88	1968-85	1974-88	1976-86	1976-86	1976-86	1976-88	1976-86	1976-86	1976-86	1975-88	1975-88	1975-83	1975-86	1975-86	1975-86	1975-86	1975-86	0	1974-86	1969-76	1976	1982-83	1982-83
Alligator River water-quality zones																									
AR1																									
P	*	*	--	--	*	--	--	--	--	--	--	*	--	*	*	*	*	*	--	--	--	--	--	--	
Slope	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
N	32	30	0	12	20	11	12	19	10	9	8	28	7	18	51	47	21	21	33	16	12	11	12	11	
Record	1982-88	1982-88	0	1982-88	1982-88	1982-86	1982-86	1982-88	1982-86	1982-86	1983-86	1982-88	1985-88	1982-86	1970-88	1970-88	1982-88	1982-88	1970-74	1982-86	1982-83	1982-83	1982-83	1982-83	
AR2																									
P	.019	*	--	--	<.001	.002	<.001	*	--	*	--	*	--	*	<.001	<.001	*	*	--	*	*	*	*	*	
Slope	.115	--	--	--	263.1	43.83	260	--	--	--	--	--	--	--	-.023	-.073	--	--	--	--	--	--	--	--	
N	186	47	0	16	159	150	152	147	121	117	9	26	13	156	192	185	148	155	33	154	21	20	21	20	
Record	1975-88	1976-88	0	1975-88	1975-88	1975-86	1975-86	1975-88	1975-86	1975-85	1983-86	1982-88	1976-88	1975-86	1970-88	1971-88	1975-88	1975-88	1970-74	1975-86	1982-88	1982-88	1982-88	1982-88	
AR3																									
P	*	*	--	--	--	--	--	--	--	--	--	*	--	--	*	*	*	*	--	--	*	*	*	*	
Slope	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
N	33	30	0	13	21	12	13	21	12	12	9	31	8	18	20	21	21	21	0	17	19	18	19	18	
Record	1982-88	1982-88	0	1982-88	1982-88	1982-86	1982-86	1982-88	1982-86	1982-86	1983-86	1982-88	1985-88	1982-86	1982-88	1982-88	1982-88	1982-88	0	1982-86	1982-88	1982-88	1982-88	1982-88	