

Towanda 1989-2018 Parameter/code	Flow Normalized Concentration (mg/L)				Flow Normalized Load (Millions Kg/yr)			
	Change	Likelihood Test			Change	Likelihood Test		
		Value	Descriptor	Trend		Value	Descriptor	Trend
Total Nitrogen	-0.567	0.99	HL	DN	-6.478	0.99	HL	DN
Nitrate/Nitrite	-0.269	0.99	HL	DN	-2.933	0.99	HL	DN
Ammonia	-0.022	0.97	HL	DN	-0.367	0.93	VL	DN
Dissolved Nitrogen	-0.451	0.99	HL	DN	-5.324	0.99	HL	DN
Nitrate/Nitrite	-0.271	0.99	HL	DN	-2.932	0.99	HL	DN
Ammonia	-0.019	0.99	HL	DN	-0.289	0.95	HL	DN
Total Phosphorus	-0.033	0.99	HL	DN	0.081	0.54	ALAN	NS
Particulate Phosphorus	-0.003	0.78	L	DN	0.559	0.91	VL	UP
Dissolved Phosphorus	-0.030	0.99	HL	DN	-0.284	0.99	HL	DN
Orthophosphorus	-0.002	0.79	L	DN	0.017	0.85	L	UP
Total Organic Carbon	-0.597	0.99	HL	DN	-3.785	0.87	L	DN
Total Suspended Solids	12.800	0.95	HL	UP	1079.000	0.87	L	UP
Suspended Sediment	-1.520	0.70	L	DN	34.290	0.64	ALAN	NS

Towanda 2005-2018 Parameter/code	Flow Normalized Concentration (mg/L)				Flow Normalized Load (Millions Kg/yr)			
	Change	Likelihood Test			Change	Likelihood Test		
		Value	Descriptor	Trend		Value	Descriptor	Trend
Total Nitrogen	-0.045	0.91	VL	DN	-0.098	0.76	L	DN
Nitrate/Nitrite	0.009	0.52	ALAN	NS	-0.351	0.91	VL	DN
Ammonia	-0.009	0.85	L	DN	-0.037	0.81	L	DN
Dissolved Nitrogen	-0.083	0.97	HL	DN	-0.964	0.97	HL	DN
Nitrate/Nitrite	0.015	0.58	ALAN	NS	-0.291	0.89	L	DN
Ammonia	-0.008	0.83	L	DN	-0.033	0.81	HL	DN
Total Phosphorus	-0.019	0.99	HL	DN	0.224	0.79	L	UP
Particulate Phosphorus	0.011	0.87	L	UP	0.666	0.93	VL	UP
Dissolved Phosphorus	-0.025	0.99	HL	DN	-0.214	0.99	HL	DN
Orthophosphorus	-0.022	0.99	HL	DN	-0.189	0.99	HL	DN
Total Organic Carbon	-0.269	0.99	HL	DN	0.878	0.54	ALAN	NS
Total Suspended Solids	9.420	0.93	VL	UP	930.300	0.85	L	UP
Suspended Sediment	9.710	0.83	L	UP	456.000	0.87	L	UP

Danville 1985-2018 Parameter/code	Flow Normalized Concentration (mg/L)				Flow Normalized Load (Millions Kg/yr)			
	Change	Likelihood Test			Change	Likelihood Test		
		Value	Descriptor	Trend		Value	Descriptor	Trend
Total Nitrogen	-0.797	0.99	HL	DN	-12.310	0.99	HL	DN
Nitrate/Nitrite	-0.294	0.99	HL	DN	-3.945	0.99	HL	DN
Ammonia	-0.063	0.99	HL	DN	-1.048	0.99	HL	DN
Dissolved Nitrogen	-0.615	0.99	HL	DN	-9.772	0.99	HL	DN
Nitrate/Nitrite	-0.290	0.99	HL	DN	-4.052	0.99	HL	DN
Ammonia	-0.065	0.99	HL	DN	-1.092	0.99	HL	DN
Total Phosphorus	-0.051	0.99	HL	DN	-0.385	0.93	VL	DN
Particulate Phosphorus	-0.036	0.99	HL	DN	-0.075	0.78	L	DN
Dissolved Phosphorus	-0.022	0.99	HL	DN	-0.369	0.99	HL	DN
Orthophosphorus	-0.004	0.87	L	DN	-0.038	0.50	ALAN	NS
Total Organic Carbon	-1.720	0.99	HL	DN	-23.570	0.99	HL	DN
Total Suspended Solids	6.800	0.74	L	UP	582.400	0.81	L	UP
Suspended Sediment	-13.500	0.97	HL	DN	-232.400	0.76	L	DN

Danville 2005-2018 Parameter/code	Flow Normalized Concentration (mg/L)				Flow Normalized Load (Millions Kg/yr)			
	Change	Likelihood Test			Change	Likelihood Test		
		Value	Descriptor	Trend		Value	Descriptor	Trend
Total Nitrogen	-0.152	0.99	HL	DN	-0.939	0.91	VL	DN
Nitrate/Nitrite	-0.078	0.97	HL	DN	-0.955	0.99	HL	DN
Ammonia	-0.018	0.97	HL	DN	-0.203	0.97	HL	DN
Dissolved Nitrogen	-0.179	0.99	HL	DN	-2.032	0.99	HL	DN
Nitrate/Nitrite	-0.074	0.97	HL	DN	-0.868	0.97	HL	DN
Ammonia	-0.020	0.99	HL	DN	-0.226	0.99	HL	DN
Total Phosphorus	-0.022	0.97	HL	DN	-0.075	0.72	L	DN
Dissolved Phosphorus	0.008	0.85	L	UP	0.435	0.85	L	UP
Orthophosphorus	-0.026	0.99	HL	DN	-0.368	0.99	HL	DN
Total Organic Carbon	-0.023	0.99	HL	DN	-0.326	0.99	HL	DN
Total Suspended Solids	-0.353	0.99	HL	DN	-1.371	0.70	L	DN
Suspended Sediment	7.180	0.72	L	UP	479.000	0.79	L	UP

Marietta 1987-2018 Parameter/code	Flow Normalized Concentration (mg/L)				Flow Normalized Load (Millions Kg/yr)			
	Change	Likelihood Test			Change	Likelihood Test		
		Value	Descriptor	Trend		Value	Descriptor	Trend
Total Nitrogen	-0.758	0.99	HL	DN	-28.790	0.99	HL	DN
Nitrate/Nitrite	-0.305	0.99	HL	DN	-9.836	0.99	HL	DN
Ammonia	-0.034	0.93	VL	DN	-1.469	0.95	HL	DN
Dissolved Nitrogen	-0.560	0.99	HL	DN	-19.310	0.99	HL	DN
Nitrate/Nitrite	-0.303	0.99	HL	DN	-10.240	0.99	HL	DN
Ammonia	-0.036	0.97	HL	DN	-1.485	0.99	HL	DN
Total Phosphorus	-0.051	0.99	HL	DN	-1.559	0.95	HL	DN
Particulate Phosphorus	-0.034	0.97	HL	DN	-1.075	0.78	L	DN
Dissolved Phosphorus	-0.022	0.99	HL	DN	-0.750	0.99	HL	DN
Orthophosphorus	0.005	0.99	HL	UP	0.284	0.97	HL	UP
Total Organic Carbon	-0.836	0.99	HL	DN	-23.120	0.99	HL	DN
Total Suspended Solids	-13.500	0.89	L	DN	-1,482	0.95	HL	DN
Suspended Sediment	-24.100	0.97	HL	DN	-1,557	0.93	VL	DN

Marietta 2005-2018 Parameter/code	Flow Normalized Concentration (mg/L)				Flow Normalized Load (Millions Kg/yr)			
	Change	Likelihood Test			Change	Likelihood Test		
		Value	Descriptor	Trend		Value	Descriptor	Trend
Total Nitrogen	-0.342	0.99	HL	DN	-8.056	0.99	HL	DN
Nitrate/Nitrite	-0.265	0.99	HL	DN	-6.165	0.99	HL	DN
Ammonia	-0.023	0.99	HL	DN	-0.706	0.99	HL	DN
Dissolved Nitrogen	-0.334	0.99	HL	DN	-8.665	0.99	HL	DN
Nitrate/Nitrite	-0.259	0.99	HL	DN	-5.781	0.95	HL	DN
Ammonia	-0.021	0.99	HL	DN	-0.699	0.99	HL	DN
Total Phosphorus	-0.018	0.99	HL	DN	-0.653	0.97	HL	DN
Particulate Phosphorus	-0.007	0.97	HL	DN	-0.305	0.81	L	DN
Dissolved Phosphorus	-0.010	0.99	HL	DN	-0.326	0.99	HL	DN
Orthophosphorus	-0.007	0.99	HL	DN	-0.190	0.97	HL	DN
Total Organic Carbon	-0.092	0.78	L	DN	4.043	0.54	ALAN	NS
Total Suspended Solids	-6.980	0.93	VL	DN	-881.700	0.97	HL	DN
Suspended Sediment	-6.680	0.95	HL	DN	-389.800	0.85	L	DN

Lewisburg 1985-2018 Parameter/code	Flow Normalized Concentration (mg/L)				Flow Normalized Load (Millions Kg/yr)			
	Change	Likelihood Test			Change	Likelihood Test		
		Value	Descriptor	Trend		Value	Descriptor	Trend
Total Nitrogen	-0.618	0.99	HL	DN	-5.277	0.99	HL	DN
Nitrate/Nitrite	-0.221	0.99	HL	DN	-1.343	0.99	HL	DN
Ammonia	-0.041	0.99	HL	DN	-0.355	0.99	HL	DN
Dissolved Nitrogen	-0.494	0.99	HL	DN	-4.246	0.99	HL	DN
Nitrate/Nitrite	-0.202	0.99	HL	DN	-1.319	0.99	HL	DN
Ammonia	-0.033	0.99	HL	DN	-0.314	0.99	HL	DN
Total Phosphorus	-0.040	0.99	HL	DN	-0.217	0.99	HL	DN
Particulate Phosphorus	-0.026	0.97	HL	DN	-0.064	0.74	L	DN
Dissolved Phosphorus	-0.030	0.99	HL	DN	-0.263	0.99	HL	DN
Orthophosphorus	-0.009	0.99	HL	DN	-0.016	0.81	L	DN
Total Organic Carbon	-0.632	0.99	HL	DN	-2.632	0.85	L	DN
Total Suspended Solids	-6.840	0.83	L	DN	-135.000	0.74	L	DN
Suspended Sediment	-6.670	0.97	HL	DN	-79.180	0.81	L	DN

Lewisburg 2005-2018 Parameter/code	Flow Normalized Concentration (mg/L)				Flow Normalized Load (Millions Kg/yr)			
	Change	Likelihood Test			Change	Likelihood Test		
		Value	Descriptor	Trend		Value	Descriptor	Trend
Total Nitrogen	-0.314	0.99	HL	DN	-1.684	0.99	HL	DN
Nitrate/Nitrite	-0.218	0.99	HL	DN	-1.392	0.99	HL	DN
Ammonia	-0.029	0.99	HL	DN	-0.216	0.99	HL	DN
Dissolved Nitrogen	-0.325	0.99	HL	DN	-2.130	0.99	HL	DN
Nitrate/Nitrite	-0.216	0.99	HL	DN	-1.365	0.99	HL	DN
Ammonia	-0.026	0.99	HL	DN	-0.213	0.99	HL	DN
Total Phosphorus	-0.022	0.99	HL	DN	-0.170	0.99	HL	DN
Particulate Phosphorus	0.000	0.62	ALAN	NS	0.069	0.60	ALAN	NS
Dissolved Phosphorus	-0.019	0.99	HL	DN	-0.170	0.99	HL	DN
Orthophosphorus	-0.015	0.99	HL	DN	-0.116	0.99	HL	DN
Total Organic Carbon	-0.395	0.99	HL	DN	-1.208	0.81	L	DN
Total Suspended Solids	-2.210	0.79	L	DN	-42.350	0.74	L	DN
Suspended Sediment	-3.110	0.89	L	DN	-16.740	0.64	ALAN	NS

Newport 1985-2018 Parameter/code	Flow Normalized Concentration (mg/L)				Flow Normalized Load (Millions Kg/yr)			
	Change	Likelihood Test			Change	Likelihood Test		
		Value	Descriptor	Trend		Value	Descriptor	Trend
Total Nitrogen	-0.476	0.99	HL	DN	-1.987	0.99	HL	DN
Nitrate/Nitrite	-0.121	0.93	VL	DN	-0.477	0.81	L	DN
Ammonia	-0.034	0.99	HL	DN	-0.150	0.97	HL	DN
Dissolved Nitrogen	-0.312	0.99	HL	DN	-1.288	0.99	HL	DN
Nitrate/Nitrite	-0.096	0.91	VL	DN	-0.207	0.68	L	DN
Ammonia	-0.023	0.99	HL	DN	-0.134	0.99	HL	DN
Total Phosphorus	-0.069	0.99	HL	DN	-0.266	0.99	HL	DN
Particulate Phosphorus	-0.028	0.99	HL	DN	-0.180	0.83	L	DN
Dissolved Phosphorus	-0.045	0.99	HL	DN	-0.138	0.99	HL	DN
Orthophosphorus	-0.031	0.97	HL	DN	-0.069	0.89	L	DN
Total Organic Carbon	-2.040	0.99	HL	DN	-9.540	0.97	HL	DN
Total Suspended Solids	-16.000	0.97	HL	DN	-144.400	0.89	L	DN
Suspended Sediment	-21.400	0.95	HL	DN	-191.600	0.91	VL	DN

Newport 2005-2018 Parameter/code	Flow Normalized Concentration (mg/L)				Flow Normalized Load (Millions Kg/yr)			
	Change	Likelihood Test			Change	Likelihood Test		
		Value	Descriptor	Trend		Value	Descriptor	Trend
Total Nitrogen	-0.182	-0.41	HL	DN	-0.412	0.99	HL	DN
Nitrate/Nitrite	-0.151	0.99	HL	DN	-0.406	0.91	VL	DN
Ammonia	-0.015	0.99	HL	DN	-0.044	0.97	HL	DN
Dissolved Nitrogen	-0.178	0.99	HL	DN	-0.483	0.95	HL	DN
Nitrate/Nitrite	-0.143	0.99	HL	DN	-0.383	0.87	L	DN
Ammonia	-0.009	0.99	HL	DN	-0.032	0.99	HL	DN
Total Phosphorus	-0.030	0.99	HL	DN	-0.123	0.99	HL	DN
Particulate Phosphorus	-0.009	0.99	HL	DN	-0.083	0.95	HL	DN
Dissolved Phosphorus	-0.023	0.99	HL	DN	-0.073	0.99	HL	DN
Orthophosphorus	-0.017	0.99	HL	DN	-0.052	0.99	HL	DN
Total Organic Carbon	-0.399	0.99	HL	DN	-0.713	0.81	L	DN
Total Suspended Solids	-9.420	0.99	HL	DN	-94.820	0.95	HL	DN
Suspended Sediment	-7.210	0.99	HL	DN	-70.090	0.93	VL	DN

Conestoga 1985-2018 Parameter/code	Flow Normalized Concentration (mg/L)				Flow Normalized Load (Millions Kg/yr)			
	Change	Likelihood Test			Change	Likelihood Test		
		Value	Descriptor	Trend		Value	Descriptor	Trend
Total Nitrogen	-2.770	0.99	HL	DN	-2.018	0.99	HL	DN
Nitrate/Nitrite	-1.740	0.99	HL	DN	-1.021	0.99	HL	DN
Ammonia	-0.317	0.99	HL	DN	-0.248	0.99	HL	DN
Dissolved Nitrogen	-2.110	0.97	HL	DN	-1.356	0.99	HL	DN
Nitrate/Nitrite	-1.630	0.97	HL	DN	-0.949	0.97	HL	DN
Ammonia	-0.297	0.99	HL	DN	-0.234	0.99	HL	DN
Total Phosphorus	-0.323	0.99	HL	DN	-0.229	0.95	HL	DN
Particulate Phosphorus	-0.139	0.99	HL	DN	-0.135	0.81	L	DN
Dissolved Phosphorus	-0.179	0.99	HL	DN	-0.088	0.99	HL	DN
Orthophosphorus	-0.174	0.99	HL	DN	-0.071	0.97	HL	DN
Total Organic Carbon	-5.570	0.99	HL	DN	-4.199	0.99	HL	DN
Total Suspended Solids	-70.200	0.99	HL	DN	-109.400	0.93	VL	DN
Suspended Sediment	-103.000	0.99	HL	DN	-177.000	0.95	HL	DN

Conestoga 2005-2018 Parameter/code	Flow Normalized Concentration (mg/L)				Flow Normalized Load (Millions Kg/yr)			
	Change	Likelihood Test			Change	Likelihood Test		
		Value	Descriptor	Trend		Value	Descriptor	Trend
Total Nitrogen	-1.670	0.99	HL	DN	-0.978	0.99	HL	DN
Nitrate/Nitrite	-1.470	0.99	HL	DN	-0.887	0.99	HL	DN
Ammonia	-0.003	0.56	ALAN	NS	0.006	0.58	ALAN	NS
Dissolved Nitrogen	-1.680	0.99	HL	DN	-1.020	0.99	HL	DN
Nitrate/Nitrite	-1.300	0.99	HL	DN	-0.803	0.99	HL	DN
Ammonia	-0.002	0.54	ALAN	NS	0.007	0.60	ALAN	NS
Total Phosphorus	-0.023	0.76	L	DN	-0.012	0.68	L	DN
Particulate Phosphorus	-0.020	0.93	VL	DN	-0.011	0.66	ALAN	NS
Dissolved Phosphorus	-0.003	0.60	ALAN	NS	-0.002	0.66	ALAN	NS
Orthophosphorus	0.012	0.72	L	UP	0.005	0.54	ALAN	NS
Total Organic Carbon	-0.823	0.99	HL	DN	-0.416	0.97	HL	DN
Total Suspended Solids	-24.100	0.99	HL	DN	-20.270	0.79	L	DN
Suspended Sediment	-20.900	0.97	HL	DN	-14.170	0.68	L	DN

01502500; Unadilla 2006-2018 Parameter/code	Flow Normalized Concentration (mg/L)				Flow Normalized Load (Millions Kg/yr)			
	Change	Likelihood Test			Change	Likelihood Test		
		Value	Descriptor	Trend		Value	Descriptor	Trend
Total Nitrogen	0.092	0.93	VL	UP	0.076	0.95	HL	UP
Nitrate/Nitrite	0.093	0.87	L	UP	0.068	0.81	L	UP
Ammonia	-0.021	0.99	HL	DN	-0.024	0.99	HL	DN
Dissolved Nitrogen	0.114	0.93	VL	UP	0.087	0.89	L	UP
Nitrate/Nitrite	0.118	0.97	HL	UP	0.089	0.95	HL	UP
Ammonia	-0.016	0.97	HL	DN	-0.020	0.97	HL	DN
Total Phosphorus	-0.036	0.99	HL	DN	-0.042	0.99	HL	DN
Particulate Phosphorus	-0.004	0.85	L	DN	-0.006	0.79	L	DN
Dissolved Phosphorus	-0.026	0.99	HL	DN	-0.028	0.99	HL	DN
Orthophosphorus	-0.027	0.99	HL	DN	-0.028	0.99	HL	DN
Total Organic Carbon	-0.052	0.64	ALAN	NS	0.122	0.70	L	UP
Total Suspended Solids	0.688	0.54	ALAN	NS	3.243	0.62	ALAN	NS
Suspended Sediment	0.348	0.50	ALAN	NS	-1.959	0.52	ALAN	NS

01503000; Conklin 2005-2018 Parameter/code	Flow Normalized Concentration (mg/L)				Flow Normalized Load (Millions Kg/yr)			
	Change	Likelihood Test			Change	Likelihood Test		
		Value	Descriptor	Trend		Value	Descriptor	Trend
Total Nitrogen	-0.089	0.95	HL	DN	-0.404	0.93	VL	DN
Nitrate/Nitrite	-0.056	0.93	VL	DN	-0.261	0.93	VL	DN
Ammonia	-0.028	0.99	HL	DN	-0.111	0.99	HL	DN
Dissolved Nitrogen	-0.042	0.83	L	DN	-0.139	0.72	L	DN
Nitrate/Nitrite	-0.032	0.85	L	DN	-0.149	0.85	L	DN
Ammonia	-0.025	0.99	HL	DN	-0.101	0.97	HL	DN
Total Phosphorus	-0.039	0.99	HL	DN	-0.145	0.97	HL	DN
Particulate Phosphorus	-0.004	0.85	L	DN	0.026	0.50	ALAN	NS
Dissolved Phosphorus	-0.031	0.99	HL	DN	-0.116	0.99	HL	DN
Orthophosphorus	-0.029	0.99	HL	DN	-0.113	0.99	HL	DN
Total Organic Carbon	-0.202	0.91	VL	DN	0.347	0.52	ALAN	NS
Total Suspended Solids	11.400	0.91	VL	UP	250.100	0.93	VL	UP
Suspended Sediment	3.780	0.60	ALAN	NS	148.100	0.72	L	UP

01515000; Smithboro 2005-2018	Flow Normalized Concentration (mg/L)				Flow Normalized Load (Millions Kg/yr)			
	Change	Likelihood Test			Change	Likelihood Test		
		Value	Descriptor	Trend		Value	Descriptor	Trend
Parameter/code								
Total Nitrogen	-0.029	0.62	ALAN	NS	-0.144	0.62	ALAN	NS
Nitrate/Nitrite	0.013	0.52	ALAN	NS	-0.265	0.79	L	DN
Ammonia	0.000	0.56	ALAN	NS	-0.079	0.87	L	DN
Dissolved Nitrogen	-0.004	0.50	ALAN	NS	-0.249	0.74	L	DN
Nitrate/Nitrite	0.019	0.66	ALAN	NS	-0.117	0.72	L	DN
Ammonia	-0.001	0.62	ALAN	NS	-0.043	0.79	L	DN
Total Phosphorus	-0.028	0.99	HL	DN	-0.173	0.91	VL	DN
Particulate Phosphorus	-0.014	0.97	HL	DN	0.020	0.60	ALAN	NS
Dissolved Phosphorus	-0.016	0.95	HL	DN	-0.143	0.97	HL	DN
Orthophosphorus	-0.014	0.91	VL	DN	-0.141	0.97	HL	DN
Total Organic Carbon	-0.022	0.66	ALAN	NS	1.990	0.83	L	UP
Total Suspended Solids	12.600	0.97	HL	UP	479.300	0.95	HL	UP
Suspended Sediment	6.180	0.87	L	UP	244.400	0.83	L	UP

01529500; Cohocton 2005-2018	Flow Normalized Concentration (mg/L)				Flow Normalized Load (Millions Kg/yr)			
	Change	Likelihood Test			Change	Likelihood Test		
		Value	Descriptor	Trend		Value	Descriptor	Trend
Parameter/code								
Total Nitrogen	0.185	0.89	L	UP	0.100	0.95	HL	UP
Nitrate/Nitrite	0.243	0.97	HL	UP	0.129	0.99	HL	UP
Ammonia	-0.033	0.99	HL	DN	-0.016	0.99	HL	DN
Dissolved Nitrogen	0.251	0.95	HL	UP	0.142	0.99	HL	UP
Nitrate/Nitrite	0.279	0.97	HL	UP	0.142	0.99	HL	UP
Ammonia	-0.029	0.99	HL	DN	-0.012	0.99	HL	DN
Total Phosphorus	-0.040	0.99	HL	DN	-0.018	0.97	HL	DN
Particulate Phosphorus	-0.005	0.89	L	DN	0.000	0.54	ALAN	NS
Dissolved Phosphorus	-0.033	0.99	HL	DN	-0.013	0.99	HL	DN
Orthophosphorus	-0.029	0.99	HL	DN	-0.011	0.99	HL	DN
Total Organic Carbon	-0.258	0.70	L	DN	-0.038	0.60	ALAN	NS
Total Suspended Solids	-1.660	0.62	ALAN	NS	1.013	0.54	ALAN	NS
Suspended Sediment	-2.450	0.72	L	DN	-0.656	0.50	ALAN	NS

01531000; Chemung 2005-2018	Flow Normalized Concentration (mg/L)				Flow Normalized Load (Millions Kg/yr)			
	Change	Likelihood Test			Change	Likelihood Test		
		Value	Descriptor	Trend		Value	Descriptor	Trend
Parameter/code								
Total Nitrogen	0.047	0.64	ALAN	NS	0.041	0.50	ALAN	NS
Nitrate/Nitrite	0.082	0.78	L	UP	0.104	0.72	L	UP
Ammonia	-0.005	0.79	L	DN	-0.023	0.85	L	DN
Dissolved Nitrogen	0.007	0.52	ALAN	NS	-0.036	0.60	ALAN	NS
Nitrate/Nitrite	0.028	0.60	ALAN	NS	0.030	0.60	ALAN	NS
Ammonia	-0.008	0.79	L	DN	-0.031	0.85	L	DN
Total Phosphorus	-0.066	0.99	HL	DN	-0.163	0.97	HL	DN
Particulate Phosphorus	-0.021	0.99	HL	DN	-0.071	0.85	L	DN
Dissolved Phosphorus	-0.041	0.93	VL	DN	-0.072	0.97	HL	DN
Orthophosphorus	-0.043	0.89	L	DN	-0.070	0.97	HL	DN
Total Organic Carbon	0.000	0.54	ALAN	NS	0.807	0.87	L	UP
Total Suspended Solids	0.051	0.56	ALAN	NS	57.660	0.89	L	UP
Suspended Sediment	-3.330	0.60	ALAN	NS	1.041	0.58	ALAN	NS

01536500; Wilkes Barre 2005-2018	Flow Normalized Concentration (mg/L)				Flow Normalized Load (Millions Kg/yr)			
	Change	Likelihood Test			Change	Likelihood Test		
		Value	Descriptor	Trend		Value	Descriptor	Trend
Total Nitrogen	-0.017	0.62	ALAN	NS	0.904	0.83	L	UP
Nitrate/Nitrite	0.017	0.72	L	UP	0.083	0.60	ALAN	NS
Ammonia	-0.011	0.89	L	DN	-0.093	0.89	L	DN
Dissolved Nitrogen	-0.045	0.72	L	DN	-0.241	0.56	ALAN	NS
Nitrate/Nitrite	0.024	0.74	L	UP	0.183	0.66	ALAN	NS
Ammonia	-0.009	0.89	L	DN	-0.085	0.85	L	DN
Total Phosphorus	-0.014	0.95	HL	DN	0.106	0.52	ALAN	NS
Particulate Phosphorus	0.013	0.78	L	UP	0.593	0.79	L	UP
Dissolved Phosphorus	-0.024	0.99	HL	DN	-0.350	0.99	HL	DN
Orthophosphorus	-0.022	0.99	HL	DN	-0.328	0.99	HL	DN
Total Organic Carbon	-0.329	0.95	HL	DN	-3.016	0.78	L	DN
Total Suspended Solids	9.700	0.66	ALAN	NS	233.700	0.62	ALAN	NS
Suspended Sediment	20.900	0.79	L	UP	1036.000	0.68	L	UP

01542500; Karthaus 2005-2018	Flow Normalized Concentration (mg/L)				Flow Normalized Load (Millions Kg/yr)			
	Change	Likelihood Test			Change	Likelihood Test		
		Value	Descriptor	Trend		Value	Descriptor	Trend
Total Nitrogen	0.011	0.70	L	UP	0.180	0.93	VL	UP
Nitrate/Nitrite	0.003	0.60	ALAN	NS	0.110	0.99	HL	UP
Ammonia	-0.020	0.99	HL	DN	-0.039	0.99	HL	DN
Dissolved Nitrogen	-0.028	0.66	ALAN	NS	0.030	0.72	L	UP
Nitrate/Nitrite	0.020	0.83	L	UP	0.133	0.99	HL	UP
Ammonia	-0.017	0.99	HL	DN	-0.034	0.99	HL	DN
Total Phosphorus	-0.018	0.97	HL	DN	-0.024	0.91	VL	DN
Particulate Phosphorus	-0.010	0.91	VL	DN	-0.007	0.79	L	DN
Dissolved Phosphorus	-0.012	0.99	HL	DN	-0.018	0.99	HL	DN
Orthophosphorus	-0.007	0.99	HL	DN	-0.009	0.97	HL	DN
Total Organic Carbon	-0.040	0.66	ALAN	NS	0.176	0.54	ALAN	NS
Total Suspended Solids	0.261	0.62	ALAN	NS	10.610	0.64	ALAN	NS
Suspended Sediment	1.560	0.54	ALAN	NS	10.890	0.54	ALAN	NS

01549760; Jersey Shore 2005-2018	Flow Normalized Concentration (mg/L)				Flow Normalized Load (Millions Kg/yr)			
	Change	Likelihood Test			Change	Likelihood Test		
		Value	Descriptor	Trend		Value	Descriptor	Trend
Total Nitrogen	-0.067	0.76	L	DN	0.329	0.79	L	UP
Nitrate/Nitrite	-0.100	0.87	L	DN	-0.271	0.54	ALAN	NS
Ammonia	-0.009	0.93	VL	DN	-0.052	0.81	L	DN
Dissolved Nitrogen	-0.101	0.85	L	DN	-0.203	0.54	ALAN	NS
Nitrate/Nitrite	-0.087	0.83	L	DN	-0.213	0.54	ALAN	NS
Ammonia	-0.010	0.97	HL	DN	-0.087	0.97	HL	DN
Total Phosphorus	-0.023	0.99	HL	DN	-0.081	0.83	L	DN
Particulate Phosphorus	0.002	0.52	ALAN	NS	0.105	0.70	L	UP
Dissolved Phosphorus	-0.024	0.97	HL	DN	-0.147	0.99	HL	DN
Orthophosphorus	-0.017	0.99	HL	DN	-0.088	0.99	HL	DN
Total Organic Carbon	-0.067	0.79	L	DN	1.115	0.54	ALAN	NS
Total Suspended Solids	-0.674	0.60	ALAN	NS	43.560	0.79	L	UP
Suspended Sediment	-0.932	0.62	ALAN	NS	48.830	0.68	L	UP

01555000; Penns Creek 2005-2018	Flow Normalized Concentration (mg/L)				Flow Normalized Load (Millions Kg/yr)			
	Change	Likelihood Test			Change	Likelihood Test		
		Value	Descriptor	Trend		Value	Descriptor	Trend
Parameter/code								
Total Nitrogen	0.160	0.97	HL	UP	0.096	0.99	HL	UP
Nitrate/Nitrite	0.182	0.97	HL	UP	0.081	0.99	HL	UP
Ammonia	-0.008	0.91	VL	DN	-0.004	0.89	L	DN
Dissolved Nitrogen	0.138	0.97	HL	UP	0.077	0.99	HL	UP
Nitrate/Nitrite	0.186	0.97	HL	UP	0.082	0.99	HL	UP
Ammonia	-0.007	0.93	VL	DN	-0.004	0.93	VL	DN
Total Phosphorus	-0.027	0.97	HL	DN	-0.012	0.87	L	DN
Particulate Phosphorus	0.006	0.78	L	UP	0.003	0.54	ALAN	NS
Dissolved Phosphorus	-0.030	0.99	HL	DN	-0.012	0.97	HL	DN
Orthophosphorus	-0.021	0.99	HL	DN	-0.008	0.93	VL	DN
Total Organic Carbon	-0.173	0.85	L	DN	-0.027	0.68	L	DN
Total Suspended Solids	-1.190	0.68	L	DN	-1.544	0.74	L	DN
Suspended Sediment	-3.180	0.79	L	DN	-7.130	0.89	L	DN

01555500; East Mahantango 2013-2018	Flow Normalized Concentration (mg/L)				Flow Normalized Load (Millions Kg/yr)			
	Change	Likelihood Test			Change	Likelihood Test		
		Value	Descriptor	Trend		Value	Descriptor	Trend
Parameter/code								
Total Nitrogen	0.690	0.95	HL	UP	0.090	0.78	L	UP
Nitrate/Nitrite	0.199	0.68	L	UP	0.028	0.62	ALAN	NS
Ammonia	0.000	0.58	ALAN	NS	-0.003	0.74	L	DN
Dissolved Nitrogen	0.753	0.95	HL	UP	0.127	0.89	L	UP
Nitrate/Nitrite	0.705	0.95	HL	UP	0.124	0.85	L	UP
Ammonia	-0.003	0.50	ALAN	NS	-0.005	0.76	L	DN
Total Phosphorus	-0.019	0.76	L	DN	-0.014	0.74	L	DN
Particulate Phosphorus	-0.007	0.74	L	DN	-0.012	0.79	L	DN
Dissolved Phosphorus	-0.016	0.81	L	DN	-0.006	0.81	L	DN
Orthophosphorus	-0.013	0.79	L	DN	-0.005	0.81	L	DN
Total Organic Carbon	-0.535	0.91	VL	DN	-0.315	0.89	L	DN
Total Suspended Solids	-11.800	0.66	ALAN	NS	-17.890	0.58	ALAN	NS
Suspended Sediment	-11.500	0.72	L	DN	-14.830	0.68	L	DN

01562000; Saxton 2005-2018	Flow Normalized Concentration (mg/L)				Flow Normalized Load (Millions Kg/yr)			
	Change	Likelihood Test			Change	Likelihood Test		
		Value	Descriptor	Trend		Value	Descriptor	Trend
Parameter/code								
Total Nitrogen	-0.023	0.60	ALAN	NS	0.059	0.68	L	UP
Nitrate/Nitrite	-0.053	0.64	ALAN	NS	0.012	0.60	ALAN	NS
Ammonia	-0.005	0.87	L	DN	-0.003	0.81	L	DN
Dissolved Nitrogen	-0.064	0.62	ALAN	NS	-0.031	0.56	ALAN	NS
Nitrate/Nitrite	-0.047	0.62	ALAN	NS	0.017	0.60	ALAN	NS
Ammonia	-0.001	0.60	ALAN	NS	-0.003	0.78	L	DN
Total Phosphorus	0.007	0.83	L	UP	0.009	0.66	ALAN	NS
Particulate Phosphorus	0.008	0.87	L	UP	0.014	0.81	L	UP
Dissolved Phosphorus	0.002	0.76	L	UP	0.000	0.70	L	DN
Orthophosphorus	0.006	0.97	HL	UP	0.004	0.78	L	UP
Total Organic Carbon	-0.398	0.97	HL	DN	-0.300	0.81	L	DN
Total Suspended Solids	-1.760	0.76	L	DN	-14.650	0.78	L	DN
Suspended Sediment	1.270	0.54	ALAN	NS	-3.044	0.68	L	DN

01565000; Kishacoquillas 2005-2018	Flow Normalized Concentration (mg/L)				Flow Normalized Load (Millions Kg/yr)			
	Change	Likelihood Test			Change	Likelihood Test		
		Value	Descriptor	Trend		Value	Descriptor	Trend
Parameter/code								
Total Nitrogen	0.458	0.83	L	UP	0.110	0.91	VL	UP
Nitrate/Nitrite	0.370	0.81	L	UP	0.093	0.87	L	UP
Ammonia	0.000	0.64	ALAN	NS	0.000	0.56	ALAN	NS
Dissolved Nitrogen	0.466	0.83	L	UP	0.109	0.89	L	UP
Nitrate/Nitrite	0.416	0.79	L	UP	0.100	0.87	L	UP
Ammonia	-0.007	0.81	L	DN	-0.002	0.87	L	DN
Total Phosphorus	-0.020	0.89	L	DN	-0.006	0.78	L	DN
Particulate Phosphorus	0.002	0.66	ALAN	NS	0.000	0.54	ALAN	NS
Dissolved Phosphorus	-0.025	0.99	HL	DN	-0.005	0.99	HL	DN
Orthophosphorus	-0.015	0.97	HL	DN	-0.002	0.89	L	DN
Total Organic Carbon	-0.697	0.85	L	DN	-0.281	0.83	L	DN
Total Suspended Solids	-8.870	0.76	L	DN	-3.169	0.70	L	DN
Suspended Sediment	-7.580	0.76	L	DN	-3.739	0.74	L	DN

01568000; Shermans 2005-2018	Flow Normalized Concentration (mg/L)				Flow Normalized Load (Millions Kg/yr)			
	Change	Likelihood Test			Change	Likelihood Test		
		Value	Descriptor	Trend		Value	Descriptor	Trend
Parameter/code								
Total Nitrogen	-0.099	0.72	L	DN	0.012	0.68	L	UP
Nitrate/Nitrite	-0.104	0.79	L	DN	0.017	0.76	L	UP
Ammonia	-0.007	0.79	L	DN	-0.002	0.66	ALAN	NS
Dissolved Nitrogen	-0.105	0.76	L	DN	0.001	0.52	ALAN	NS
Nitrate/Nitrite	-0.156	0.89	L	DN	-0.004	0.58	ALAN	NS
Ammonia	-0.006	0.83	L	DN	-0.003	0.74	L	DN
Total Phosphorus	-0.001	0.56	ALAN	NS	-0.004	0.70	L	DN
Particulate Phosphorus	-0.001	0.58	ALAN	NS	-0.003	0.78	L	DN
Dissolved Phosphorus	0.001	0.50	ALAN	NS	-0.001	0.64	ALAN	NS
Orthophosphorus	0.005	0.89	L	UP	0.001	0.56	ALAN	NS
Total Organic Carbon	-0.393	0.89	L	DN	-0.237	0.89	L	DN
Total Suspended Solids	-3.360	0.91	VL	DN	-4.472	0.85	L	DN
Suspended Sediment	-4.030	0.89	L	DN	-4.755	0.83	L	DN

01570000; Conodoguinet 2005-2017	Flow Normalized Concentration (mg/L)				Flow Normalized Load (Millions Kg/yr)			
	Change	Likelihood Test			Change	Likelihood Test		
		Value	Descriptor	Trend		Value	Descriptor	Trend
Parameter/code								
Total Nitrogen	-0.701	0.99	HL	DN	-0.204	0.97	HL	DN
Nitrate/Nitrite	-0.797	0.99	HL	DN	-0.245	0.93	VL	DN
Ammonia	-0.004	0.79	L	DN	-0.004	0.83	L	DN
Dissolved Nitrogen	-0.700	0.99	HL	DN	-0.203	0.97	HL	DN
Nitrate/Nitrite	-0.746	0.99	HL	DN	-0.225	0.89	L	DN
Ammonia	-0.001	0.66	ALAN	NS	-0.002	0.70	L	DN
Total Phosphorus	-0.001	0.58	ALAN	NS	-0.008	0.87	L	DN
Particulate Phosphorus	0.000	0.58	ALAN	NS	-0.005	0.81	L	DN
Dissolved Phosphorus	-0.001	0.62	ALAN	NS	-0.003	0.85	L	DN
Orthophosphorus	0.001	0.66	ALAN	NS	-0.001	0.79	L	DN
Total Organic Carbon	-0.301	0.85	L	DN	-0.366	0.91	VL	DN
Total Suspended Solids	1.570	0.60	ALAN	NS	-0.832	0.58	ALAN	NS
Suspended Sediment	2.380	0.56	ALAN	NS	-2.446	0.78	L	DN

01571005; Paxton 2013-2018 Parameter/code	Flow Normalized Concentration (mg/L)				Flow Normalized Load (Millions Kg/yr)			
	Change	Likelihood Test			Change	Likelihood Test		
		Value	Descriptor	Trend		Value	Descriptor	Trend
Total Nitrogen	0.100	0.85	L	UP	0.001	0.81	L	UP
Nitrate/Nitrite	0.008	0.60	ALAN	NS	-0.003	0.81	L	DN
Ammonia	0.003	0.66	ALAN	NS	0.000	0.97	HL	UP
Dissolved Nitrogen	0.043	0.70	L	UP	-0.002	0.74	L	DN
Nitrate/Nitrite	0.010	0.62	ALAN	NS	-0.002	0.81	L	DN
Ammonia	0.001	0.58	ALAN	NS	0.000	0.93	L	UP
Total Phosphorus	0.008	0.79	L	UP	0.001	0.81	L	UP
Particulate Phosphorus	0.005	0.78	L	UP	0.000	0.83	L	UP
Dissolved Phosphorus	0.001	0.56	ALAN	NS	0.000	0.66	ALAN	NS
Orthophosphorus	0.001	0.64	ALAN	NS	0.000	0.58	ALAN	NS
Total Organic Carbon	-0.229	0.87	L	DN	-0.004	0.78	L	DN
Total Suspended Solids	6.950	0.87	L	UP	1.688	0.89	L	UP
Suspended Sediment	10.900	0.81	L	UP	2.059	0.85	L	UP

01573560; Swatara 2005-2018 Parameter/code	Flow Normalized Concentration (mg/L)				Flow Normalized Load (Millions Kg/yr)			
	Change	Likelihood Test			Change	Likelihood Test		
		Value	Descriptor	Trend		Value	Descriptor	Trend
Total Nitrogen	-1.220	0.99	HL	DN	-0.562	0.99	HL	DN
Nitrate/Nitrite	-1.280	0.99	HL	DN	-0.681	0.99	HL	DN
Ammonia	-0.017	0.97	HL	DN	-0.006	0.64	ALAN	NS
Dissolved Nitrogen	-1.250	0.99	HL	DN	-0.609	0.99	HL	DN
Nitrate/Nitrite	-1.250	0.99	HL	DN	-0.635	0.99	HL	DN
Ammonia	-0.012	0.89	L	DN	-0.004	0.62	ALAN	NS
Total Phosphorus	-0.006	0.74	L	DN	0.001	0.58	ALAN	NS
Particulate Phosphorus	0.002	0.52	ALAN	NS	0.004	0.56	ALAN	NS
Dissolved Phosphorus	-0.008	0.97	HL	DN	-0.004	0.78	L	DN
Orthophosphorus	-0.005	0.91	VL	DN	-0.002	0.78	L	DN
Total Organic Carbon	-0.276	0.89	L	DN	-0.414	0.85	L	DN
Total Suspended Solids	0.754	0.58	ALAN	NS	-5.859	0.64	ALAN	NS
Suspended Sediment	3.970	0.66	ALAN	NS	5.986	0.58	ALAN	NS

01574000; West Conewago 2005-2018 Parameter/code	Flow Normalized Concentration (mg/L)				Flow Normalized Load (Millions Kg/yr)			
	Change	Likelihood Test			Change	Likelihood Test		
		Value	Descriptor	Trend		Value	Descriptor	Trend
Total Nitrogen	-0.498	0.97	HL	DN	-0.269	0.97	HL	DN
Nitrate/Nitrite	-0.653	0.99	HL	DN	-0.354	0.99	HL	DN
Ammonia	0.012	0.79	L	UP	0.017	0.87	L	UP
Dissolved Nitrogen	-0.551	0.97	HL	DN	-0.284	0.97	HL	DN
Nitrate/Nitrite	-0.612	0.97	HL	DN	-0.316	0.97	HL	DN
Ammonia	0.012	0.83	L	UP	0.016	0.87	L	UP
Total Phosphorus	0.014	0.74	L	UP	0.009	0.54	ALAN	NS
Particulate Phosphorus	0.005	0.72	L	UP	0.001	0.52	ALAN	NS
Dissolved Phosphorus	0.011	0.70	L	UP	0.011	0.64	ALAN	NS
Orthophosphorus	0.011	0.72	L	UP	0.012	0.72	L	UP
Total Organic Carbon	-0.153	0.79	L	DN	-0.431	0.87	L	DN
Total Suspended Solids	-0.077	0.60	ALAN	NS	-19.680	0.97	HL	DN
Suspended Sediment	1.960	0.52	ALAN	NS	-12.320	0.89	L	DN

01576787; Pequea 2005-2018 Parameter/code	Flow Normalized Concentration (mg/L)				Flow Normalized Load (Millions Kg/yr)			
	Change	Likelihood Test			Change	Likelihood Test		
		Value	Descriptor	Trend		Value	Descriptor	Trend
Total Nitrogen	-1.740	0.99	HL	DN	-0.267	0.99	HL	DN
Nitrate/Nitrite	-1.500	0.99	HL	DN	-0.211	0.95	HL	DN
Ammonia	0.038	0.93	VL	UP	0.011	0.79	L	UP
Dissolved Nitrogen	-1.870	0.99	HL	DN	-0.278	0.99	HL	DN
Nitrate/Nitrite	-1.310	0.97	HL	DN	-0.183	0.91	VL	DN
Ammonia	0.041	0.91	VL	UP	0.012	0.81	L	UP
Total Phosphorus	0.094	0.87	L	UP	0.012	0.62	ALAN	NS
Particulate Phosphorus	0.029	0.78	L	UP	0.002	0.52	ALAN	NS
Dissolved Phosphorus	0.059	0.93	VL	UP	0.010	0.74	L	UP
Orthophosphorus	0.062	0.95	HL	UP	0.012	0.78	L	UP
Total Organic Carbon	0.020	0.56	ALAN	NS	-0.098	0.78	L	DN
Total Suspended Solids	5.360	0.64	ALAN	NS	-11.710	0.66	ALAN	NS
Suspended Sediment	23.200	0.83	L	UP	8.822	0.70	L	UP

01578475; Octoraro 2007-2018 Parameter/code	Flow Normalized Concentration (mg/L)				Flow Normalized Load (Millions Kg/yr)			
	Change	Likelihood Test			Change	Likelihood Test		
		Value	Descriptor	Trend		Value	Descriptor	Trend
Total Nitrogen	-0.980	0.99	HL	DN	-0.139	0.89	L	DN
Nitrate/Nitrite	-0.898	0.95	HL	DN	-0.114	0.76	L	DN
Ammonia	-0.019	0.89	L	DN	-0.008	0.87	L	DN
Dissolved Nitrogen	-1.030	0.99	HL	DN	-0.152	0.91	VL	DN
Nitrate/Nitrite	-0.848	0.95	HL	DN	-0.100	0.76	L	DN
Ammonia	-0.014	0.83	L	DN	-0.007	0.87	L	DN
Total Phosphorus	-0.032	0.93	VL	DN	-0.008	0.81	L	DN
Particulate Phosphorus	0.003	0.64	ALAN	NS	0.000	0.58	ALAN	NS
Dissolved Phosphorus	-0.031	0.97	HL	DN	-0.006	0.89	L	DN
Orthophosphorus	-0.025	0.95	HL	DN	-0.004	0.81	L	DN
Total Organic Carbon	-0.481	0.93	VL	DN	-0.197	0.87	L	DN
Total Suspended Solids	-0.200	0.60	ALAN	NS	-2.682	0.74	L	DN
Suspended Sediment	1.680	0.54	ALAN	NS	0.404	0.52	ALAN	NS