

Broad River

SUMMARY

The Broad River shows a slight increase in chlorophyll-a and dissolved oxygen concentrations since the 1999 assessment. There is no significant change in overall eutrophic condition. The river has not shown any clear trend in occurrence of nuisance/toxic blooms. SAV and macroalgae do not occur in this system

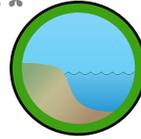
Influencing Factors

Nutrient load is unknown and influencing factors cannot be calculated.



Eutrophic Conditions **

Primary symptoms beginning to indicate possible problems but still very few secondary symptoms expressed.



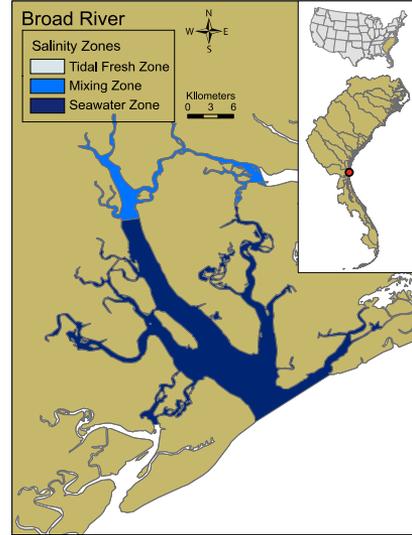
Future Outlook

Nutrient related symptoms observed in the estuary are likely to substantially worsen.



ASSETS Rating

Assessment of Estuarine Trophic Status based on the three factors evaluated in NEEA.



Influence/eutro/future

Unknown

Low

Mod Low

Moderate

Mod High

High

Reliability and Confidence

ASSETS

Unknown

High

Good

Moderate

Poor

Bad

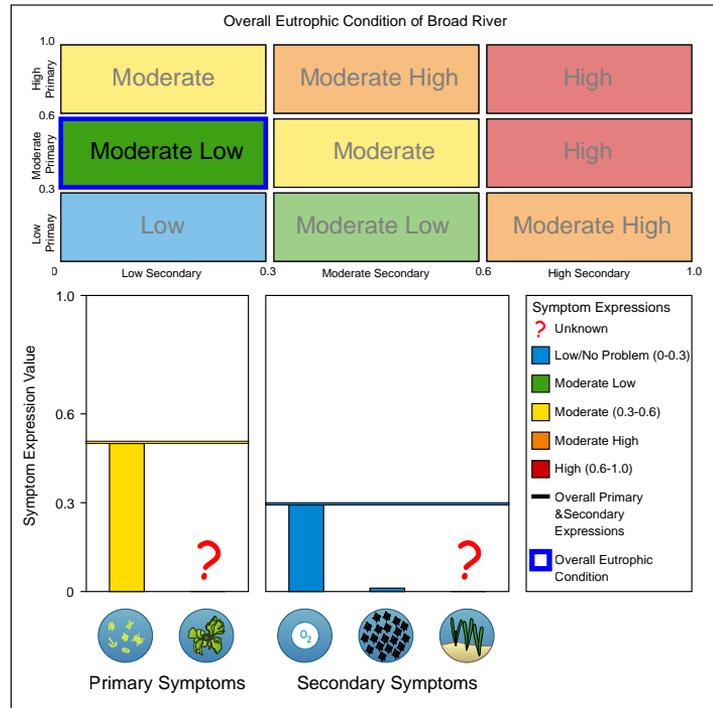
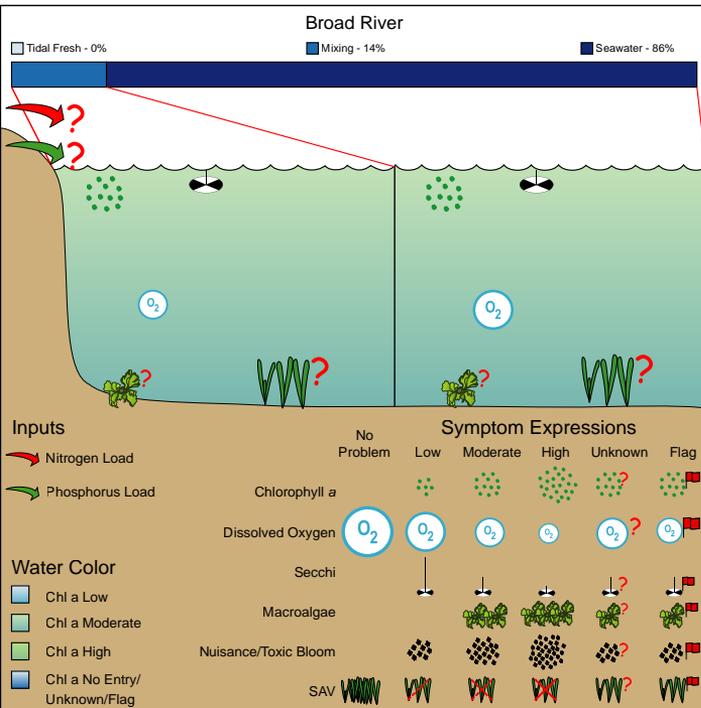
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High

EUTROPHIC CONDITION



WATERSHED AND ESTUARY CHARACTERISTICS

Estuary		Landuse / Population		Watershed Details / Input Loads	
Area (km ²)	243	Urban (km ²)	117 (5%)	Area (km ²)	2,365
Tidal fresh zone area (km ²)	0	Agriculture (km ²)	730 (31.4%)	Mean elevation (m)	17
Mixing zone area (km ²)	34	Forest (km ²)	694 (29.9%)	Max. elevation (m)	64
Saltwater zone area (km ²)	209	Wetland (km ²)	777 (33.4%)	Watershed: estuary ratio	9.7
Volume (1,000 x m ³)	1,222,290	Range (km ²)	5 (0.2%)	TSS (tonne y ⁻¹)	17,500
Depth (m)	5.03	Barren (km ²)	0 (0%)	DIN (kg y ⁻¹)	Unknown
Tide Height (m)	2.23	Total (km ²)	2,323 (0%)	DIP (kg y ⁻¹)	Unknown
Residence Time (d)	3	Population	72,977	TSS/est. area (tonne km ⁻² y ⁻¹)	72
		Popn: est. area ratio	300	DIN/est. area (kg km ⁻² y ⁻¹)	Unknown
				DIP/est. area (kg km ⁻² y ⁻¹)	Unknown