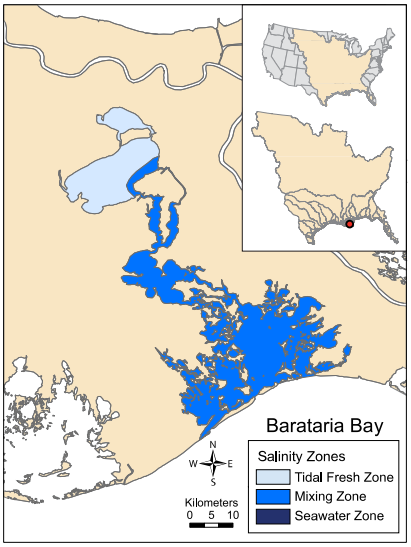
Barataria Bay

SUMMARY

Barataria Bay is characterized by high chlorophyll-a symptom expression and episodic nuisance/toxic blooms in the mixing zone. High chlorophyll-a symptom expression was also recorded in the 1999 assessment, while nuisance/toxic blooms in the mixing zone were unknown in 1999. Symptom expression for other indicators in 2004 is unknown.



Influencing Factors

Moderate to high nitrogen input and moderate to high susceptibility (low ability for dilution and flushing of nutrients).

Eutrophic Conditions *

Primary symptoms high and substantial secondary symptoms becoming more expressed, indicating potentially serious problems.

Future Outlook

An Unknown Future Outlook expression will occur if the Expected Changes In Nutrient Load by 2020 is Unknown.

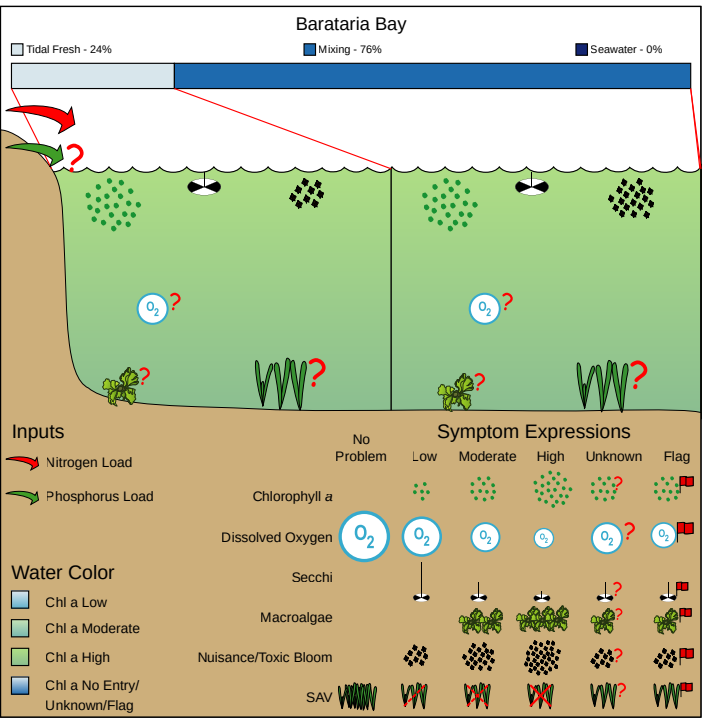
ASSETS Rating

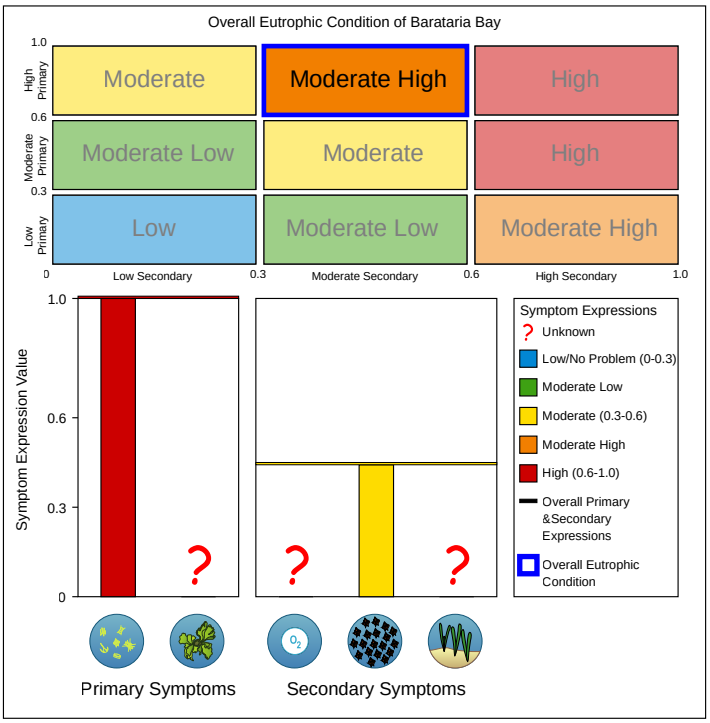
Assessment of Estuarine Trophic Status based on the three factors evaluated in NEEA.

Influence/eutro/future	Unknown	Low	Mod Low	Moderate	Mod High	High
ASSETS	Unknown	High	Good	Moderate	Poor	Bad

Reliability and Confidence			
? Unknown	* Low	** Moderate	*** High

EUTROPHIC CONDITION





WATERSHED AND ESTUARY CHARACTERISTICS

Estuary		Landuse / Population		Watershed Details / Input Loads	
Area (km^2)	852	Urban (km^2)	373 (8.7%)	Area (km^2)	4,783
Tidal fresh zone area (km^2)	204	Agriculture (km^2)	699 (16.3%)	Mean elevation (m)	0
Mixing zone area (km^2)	648	Forest (km^2)	13 (0.3%)	Max. elevation (m)	10
Saltwater zone area (km^2)	0	Wetland (km^2)	3,209 (74.7%)	Watershed: estuary ratio	5.6
Volume (1,000 x m^3)	357,840	Range (km^2)	0 (0%)	TSS (tonne y^{-1})	44,700
Depth (m)	0.42	Barren (km^2)	0 (0%)	TN (kg y^{-1})	3,460,000
Tide Height (m)	0.32	Total (km^2)	4,294 (0%)	DIP (kg y^{-1})	Unknown
Residence Time (d)	2	Population	244,409	TSS/est. area (tonne km^{-2} y^{-1})	53
		Popn: est. area ratio	287	TN/est. area (kg km^{-2} y^{-1})	4,061
				DIP/est. area (kg km^{-2} y^{-1})	Unknown