Criteria/Indicator	Total phosphorus (TP)	Soluble reactive phosphorus (SRP)	Oxygen Isotope Ratios of Phosphate	Total ammonia nitrogen (TAN)	Nitrate (NO3)	Total suspended solids (TSS)	*Cladophora* (remote sensing)	*Cladophora* (biomass)	Chl-*a*	Dissolved oxygen (DO)	pH	Conductivity	Turbidity	phyto/zooplankton	Benthic invertebrates	Stable isotopes	Fish condition	Temperature
I would (or do) use this indicator (YES/NO)																		
What it measures (score 1-5, or leave blank if criterion is not recommended for use)																		
Measures the status of the aquatic environment																		
Is ordinal (have magnitude and defined units of measurement) or binary																		
Reflects impacts at higher or lower levels of biological organization/ecosystem function																		
Can measure multiple effects coinciding in the same space or time (i.e., multivariate interactive effects)																		
Measures the endpoint of concern directly or, if no direct measurement is possible, influences the direct endpoint (i.e., exposure to stressor or effect of interest/responsive to change)																		
Accurate enough to confidently discriminate stressor-specific effects (i.e., precise, power/replication)																		
Related data/information (score 1-5, or leave blank if criterion is not recommended for use)																		
Is measured with other parameters to incorporate stressor (physical/chemical) and effect-based (biological) indicators																		
Processes that that determine the condition of the indicator (i.e., influence change in the indicator) are understood																		
Discernible significance to multiple environments (e.g., land, air, water) and/or trophic levels for species of interest (i.e., tied to the health of other organisms or measurable parameters)																		
We have knowledge of normal or desired conditions and variability of the endpoint																		
We have baseline data in the study area: Grand River estuary and/or nearshore of Erie's eastern basin (north shore)																		
Can be used with other indicators to build evidence re: environmental impacts																		
Other qualities (score 1-5, or leave blank if criterion is not recommended for use)																		
Responds predictably (for modeling)																		
Is related to one or more VECs/priorities (i.e., is relevant) and is backed by research to be a good indicator of each VEC/priority																		
Conceptually simple enough for broad dissemination (i.e., interpretable by non-technical audience)																		
Dataset that is meaningful (i.e., enough data) and useful (for calculating) is not too onerous/costly to assemble																		
Analyses for cumulative effects assessment using this indicator are known/established/feasible																		
Influences at least one other indicator																		
Specific, measurable, achievable																		
Measurable responses and/or mitigation measures are in place																		
Timely - can demonstrate change within a management timeframe																		
A systems diagram or model, which illustrates cumulative effects throughout the system (from initial drivers to endpoints), has been created or is possible to create with data we have																		

Note

Distinguish between an 'indicator', which is a qualitative measure and an 'index', which is a quantitative measure that has been calibrated to a particular phenomenon of interest. For example, "Soil moisture (%)" is an indicator. However, a soil moisture index calibrated to predict wetland condition will have a very different optimum than a soil mosture index calibrated to predict mesic forest condition.