

## Wisconsin's DRAFT Water Monitoring Strategy 2015 to 2020

### Appendix D: Crosswalk of Monitoring Studies and WisCALM Parameters

Table indicating which parameters are sampled and if these parameters are used for the WisCALM Assessment Methodology. (Green (In WisCALM), Yellow (Future WisCALM), Blue (Additional Data)). "X" indicates that the monitoring program fully meets WisCALM data requirements, and "P" means that the program partially meets data requirements (e.g. 1 TP sample) or that the program may collect the parameter but does not always do so. Waterbodies with insufficient data are flagged and prioritized for additional required monitoring by other programs such as Follow Up, Directed Lakes, and Targeted Watersheds.

	Total Phosphorus	Chlorophyll <i>a</i>	Secchi Depth	Chlorides	TSS	Continuous Dissolved Oxygen	Continuous Temperature	Dissolved Oxygen	Temperature	pH	Quan. Habitat	Qualitative Habitat	Macroinvertebrates	Fish Community	Sediment Chemistry	Aquatic Plants	Aquatic Invasive Species	Flow Monitoring	E. coli	Fecal Coliform	Zooplankton	
<b>Rivers</b>																						
Long Term Trend River Water Quality Monitoring Network	X	X		P	X			P		X								X	X			
Biotic Integrity River Sites													P									
National Rivers and Streams Assessment – Probabilistic Study	P	P		P	P					P									P			
<b>Streams</b>																						
Wadeable Trend Reference Streams	P				P	P	X	P		P	X	X	X	X			X	X				
Natural Community Stratified Random Monitoring Program	P							P		P	X		P	P			X	X				
Targeted Watershed Approach – Streams	X				P	P	P	P		P	X	X	P	P			X	X				
Water Action Volunteers - Stream Monitoring	X			X			X															
Follow Up Monitoring	X			P		P	X			P	X	X	X	X								
<b>Lakes</b>																						
Probabilistic Survey (National Lakes Assessment)	P	P	P					P	P	P	P		X		X		P					X
Long Term Trend Lakes (LTT Lakes)	X	X	X					X	P	X	X					P	P					
Aquatic Plant Reference Lakes			X													X	P					
Citizen Lake Monitoring Network^	X	X	X					X	P								P					
Satellite Monitoring - Secchi~			X																			
Directed Lake Surveys (and follow-up monitoring)	X	X	X					P	P	P	X					X	P					
<b>Wetlands</b>																						
Floristic Quality Assessment (FQA) Benchmark Surveys																						
Watershed Approach Wetland Functional Assessment (WAWFA)																						

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AIS																						
AIS Incident Reporting																	X					
AIS Probabilistic (Baseline Statewide Monitoring--Early Detection)			P														X					
<b>AIS Water Quality Biologist Stream Monitoring</b>																	X					
Aquatic Invasive Species--Project Riverine Early Detection																	X					
Aquatic Invasive Species--Snapshot Day (pilot)																	X					
Mississippi River																						
Wisconsin's Long Term Trend Monitoring																						
Environmental Management Program (EMP) Long Term Resource Monitoring Program (LTRMP)																						
Zebra Mussel Longitudinal Studies																						
Large River Soft Sediment Macroinvertebrate Sampling																						
Habitat Project Evaluation																						
Great Lakes																						
Lake Michigan Major Tributary Phosphorus Loading																						
Great Lakes Fishery Assessment																						
Pathogen Indicator																						
Contaminated Sediment																						
Cladophora/Nutrient																						
Public Water Intake Monitoring																						
<b>Cross Program Monitoring or Special Study Projects</b>																						
Source Water Assessment Monitoring																						
WQS Development, Revision, or Evaluation																						
Waterbody Use Designation																						
Permit Compliance, Innovation in Effluent Limit Determination																						
Background Concentrations																						

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Baseflow data collection																						
Permit Compliance																						
Enforcement, Spills and Kills																						
Total Maximum Daily Load (TMDL) Development [Modeling, Load Allocation]																					X	
BMP Evaluation																						
Nine Key Element Plan Development																						
TMDL Development – Runoff Dominated Watersheds																						
Contaminants in Fish Tissue																						
Public Beach Health Surveys– Coastal Surveys																				X		
Springs Inventory																						
Groundwater Monitoring – Quantity and Quality																						
Sediment Screening, Monitoring															X							
<b>Partner Monitoring</b>																						
USGS	X		X		X																	
County Health Surveys (beach monitoring)																				X		
^subset of CLMN lakes monitored for water chemistry																						
~satellite data are used for assessments, but additional chemistry data is needed to list as impaired																						