

**Table 3**  
**Critical Parameters Associated with Hydrologic Components of a Landscape**

<b>Hydrologic Components</b>	<b>Critical Parameters</b>
Surface water inflow (channelized flow)	Drainage basin size and shape
	Position of wetland in the drainage basin
	Water sources
	Chemistry
	Flow rates
	Types and amount of resistance to flow
	Annual and seasonal variability of flow rates
	Flow response to storms
	Volume of sediment transported
Surface water inflow (overland flow)	Area contributing overland flow to wetland
	Soil characteristics
	Land use
	Chemistry
	Possible nonpoint source pollution
	Flow response to storms
	Annual and seasonal variability
Surface water flow (tides)	Average tidal range
	Spring tidal range
	Neap tidal range
	Frequency and magnitude of storm surges
	Ebb and flow velocities
	Degree of interaction with groundwater
Groundwater discharges	Aquifer characteristics
	Relative contributions of local, intermediate, and regional groundwater flow systems
	Chemistry
	Annual and seasonal variability
Precipitation	Monthly rainfall totals
	Annual rainfall totals
	Annual and seasonal variability
	Timing , magnitude, and frequency of storms
	Snowfall totals
Wetland water circulation	Hydroperiod
	Hydrodynamics (flow direction and

	velocity)
	Water residence times
	Hydraulic connections (surface and subsurface)
	Water storage capacity
	Fetch
	Water chemistry
	Circulation patterns
	Response of flow and water levels to storms
	Amount of suspended sediment
Evapotranspiration (ET)	Monthly ET totals
	Annual ET totals
	Annual and seasonal variability
	Effect on wetland water chemistry
Groundwater recharge	Aquifer characteristics
	Relative contributions to local , intermediate, and regional groundwater flow systems
	Chemistry
	Annual and seasonal variability
Surface water outflow	Flow rates
	Annual and seasonal variability of flow rates
	Resistance to flow
	Flow response to storms
	Volume of sediment transported