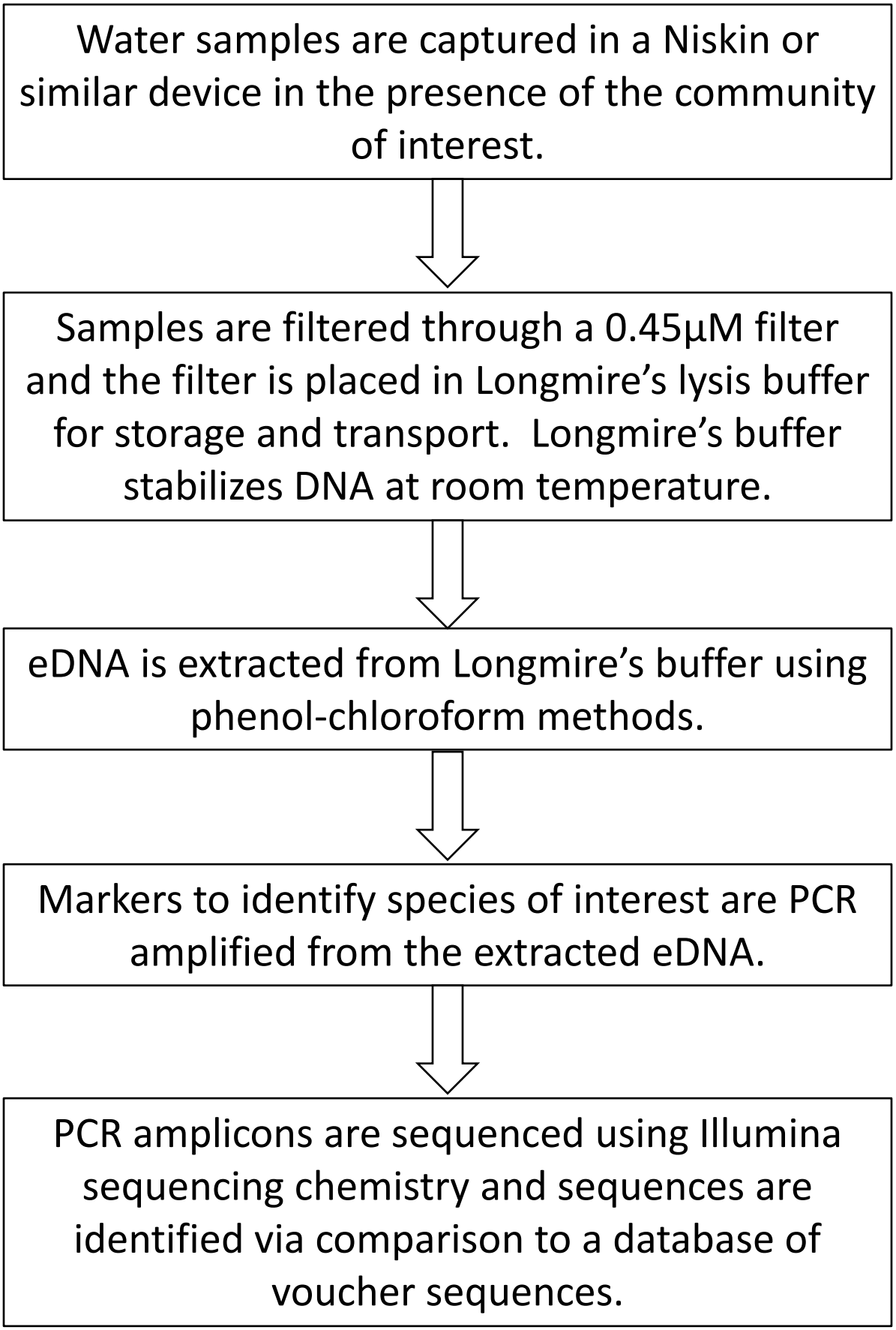
Water samples are captured in a Niskin or similar device in the presence of the community of interest.
Samples are filtered through a 0.45µM filter and the filter is placed in Longmire's lysis buffer for storage and transport. Longmire's buffer stabilizes DNA at room temperature.
eDNA is extracted from Longmire's buffer using phenol-chloroform methods.
Markers to identify species of interest are PCR amplified from the extracted eDNA.
PCR amplicons are sequenced using Illumina sequencing chemistry and sequences are identified via comparison to a database of voucher sequences.