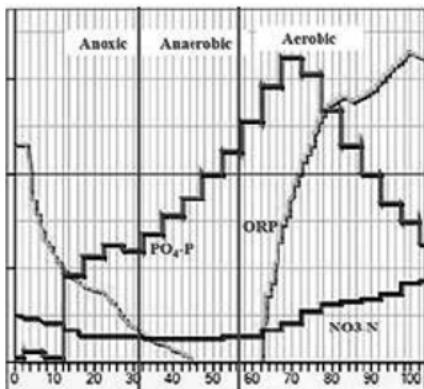
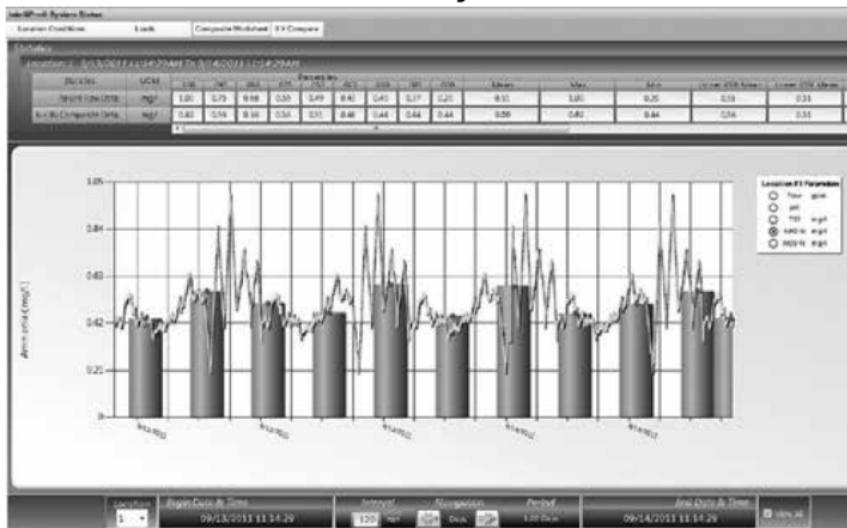


- Detects inflection point on the oxidation reduction potential (ORP) curve where the conditions go from anoxic to anaerobic, which is the beginning of biological phosphorus release
 - Optimizes chemical usage for metal salt and supplemental carbon addition
 - Offers full statistical analysis of the influent, effluent and / or recycle streams including but not limited to mean (average), standard deviation, coefficient of variation (Cv), variance (v), and percentiles

The graph illustrates the chemical environment within a sequencing batch reactor (SBR) over a 90-minute cycle. The vertical axis represents concentration, and the horizontal axis represents time. The cycle is divided into three phases: Anoxic (0-10 min), Anaerobic (10-60 min), and Aerobic (60-90 min). The **ORP** (Oxidation Reduction Potential) is shown as a solid line with a sharp decline during the transition from aerobic to anaerobic conditions. The **PO₄-P** (Phosphate) concentration is represented by a dashed line, which increases during the anaerobic phase. The **NO₃-N** (Nitrate Nitrogen) concentration is shown as a solid line, which decreases significantly during the anaerobic phase.



Statistical Analysis Screen



- In Aqua MixAir installations, aerobic periods and anoxic periods are adjusted based on actual dissolved oxygen. The system detects when anoxic periods actually begin and adjusts the cycle setting to ensure that the period is long enough
 - BioAlert™ process notification provides corrective