

CONTROLS & MONITORING SYSTEMS

IntelliPro® MONITORING AND CONTROL SYSTEM

Features/Benefits

- Customized personal computer (PC) based program for biological process optimization
- Automates the operation and control of biological processes
- Actively influences the treatment process by proactively responding to changes as they happen
- Improves system efficiency by optimizing performance which leads to a more reliable and consistent effluent quality, energy and time savings
- Provides live and historical system status through direct measurement and advanced process calculations

System Status & Process Calculations Screen

Reactor Conditions		Influent Conditions	
Current Status	1	Reactor	2
Phase:	React/Fill	Decant	
Time Remaining:	9:2	9:2	Minutes
Dissolved Oxygen:	1.4	0	mg/l
pH:	7.2	6.8	
Temperature:	22.9	22.9	°C
TSS:	2,603	5	mg/l
ORP:	152	(208)	mV
NH ₃ N:	1.48	0	mg/l
NO ₂ N:	3.05	0.32	mg/l
PO ₄ -P:	0.12	0.24	mg/l
Basin Level:	11.4	18.8	feet
Current MLSS lwt:	3,028	N/A	mg/l

System Discharge Status		
WAS Flow Average:	13,150	GPD
Decant Flow Average:	0.571	MGD
Decant TSS Average:	1	mg/l

System Condition		
MLSS LWL Average Day:	2,762	mg/l
MLSS LWL Average:	2,386	mg/l
F/M Average Ratio:	0.076	days ⁻¹
SRT day:	14.1	days
SRT 30 Day Average:	9.0	days

Cycle View						
Reactor 1	Mix Fill	React/Fill	React	Decant	Settle	Decant
React				Decant		Mix Fill
React 2		React	Settle		Decant	React/Fill

- Assists operators in managing biomass in the system by adjusting solids wasting time; the mass of solids can be controlled based on mixed liquor suspended solids (MLSS), a target food to mass (F/M) ratio, or a target solids retention time (SRT)