The Natural Solution when only the best will do

Sequencing Batch Reactors (SBR) Characterization and Performance © 2009

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ECOPROBIOTICS®, of the Bacta-Pur® System, are beneficial communities of natural bacteria, which have been on earth for millions of years and have been selected for their synergistic ability to biodegrade pollutants and to improve water quality. ECOPROBIOTICS® increase biodiversity. Just as people take probiotic yogurt for its ability to assure the presence of the optimal community for digestion and immunity, ECOPROBIOTICS® improve ecosystem health. EVERY PRODUCTION of Bacta-Pur® products is analyzed and cleared for shipment ONLY after passing all performance tests and being CERTIFIED PATHOGEN FREE using techniques from the food industry. ECOPROBIOTICS® are purely natural and beneficial. They NEVER contain added chemicals such as surfactants, emulsifiers or enzymes..., nor do they contain genetically modified (GMO) or deliberately mutated organisms. ECOPROBIOTICS® are safe and beneficial. Disease causing organisms are never used, as others do or permit.

The use of the Bacta-Pur® System is founded on solid and efficient technical support. The Bacta-Pur® System is comprised of various tools (ECOPROBIOTICS®, growth enhancers and equipment), that we use as part of a process to optimize the efficiency of wastewater treatment. Thorough understanding, of the current operational realities of each potential site, is essential prior to beginning. This is particularly true for industrial sites where physical, chemical and biological realities must be defined to permit treatment optimization.

Once completed, this questionnaire will provide us an overview of the plant, treatment, problem areas and operational goals. The information is also used to assess whether or not biological manipulations offer the potential for improvement. This questionnaire should be filled out as completely as possible; just leave blanks if information is lacking.

Customer:	
Address:	
City:	State/ Prov.
	Zip or
Country:	Postal Code:
Telephone:	Fax:
Field of Activity:	
Data certified by	
Name (print):	Title:
Signature:	Date:



Phone: (877) bactapur [222-8278], (819) 842-2494, Fax: (819) 842-2414 Email: info@bactapur.com website: www.bactapur.com

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Questionnaire,

Process Loading:

	Sewer Flow (□ MGD or □ m3/day)		Average BOD loading	Average TKN loading	
	minimum mean maximum day day		(□ kg /d or □ lb/day)	(□ kg /d or □ lb/day)	
Actual					
Design					

Sewer Composition:

	%	Describe Industrial and other sources:
Domestic		
Industrial		
Other		

Operation Strategy:

Phase	Duration (hours) or % total cycle	Aeration (yes / no)	Mixing (yes / no)
Filling			
Reaction*			
Sedimentation			
Draw			
Idle			

* Please provide tl	ne information on anoxic,	anaerobic and/or aerobic se	quence of reaction if applicable
Number of cycles	per day:	Number of tanks:	
Tank volume (fina	al liquid volume after filling	g):	
Initial volume befo	ore filling:		
Solids volume – a	uctivated sludge during id	le period:	<u> </u>
Sludge wasting:	during reaction □	during idle mode □	



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Operation Parameters:

Sludge	F/M	SVI	Mixed liquor	Biomass production	Wasted sludge
age	(kg BOD /	(mL / g)	temperature	(lbs / d □	(lbs MLVSS/ d □
(d)	kg MLSS)		(°C ☐ or °F ☐)	kg / d □)	kg MLVSS/ d □)

	Before filling	Reaction Start	Reaction End	Settling Start	Settling End
OD (mg / L)					
рН					
Total alkalinity (mg CaCO3/L)					
Biological solids, X (mg MLVSS /L)					
Biological solids, X (mg MLSS /L)					

Plant Performance:

Parameter	Influent	Reaction Start	Reaction End	Effluent
TOC Total (mg / L)				
TOC Soluble (mg / L)				
BOD5 Total (mg / L)				
BOD5 Soluble (mg / L)				
COD Total (mg / L)				
COD soluble (mg / L)				
SS / MLSS (mg / L)				
VSS / MVLSS (mg / L)				
TKN (mg / L)				
NH3-N (mg / L)				
NO ₂ -N (mg / L)				
NO ₃ -N (mg / L)				
Soluble o-PO ₄ (mg / L)				
Total P (mg / L)				
pH				
Alkalinity (mg CaCO ₃ / L)				

If possible provide profile during filling and reaction phase.

Bacta-Pur / IET-Aquaresearch Ltd.

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Questionnaire,

Nutrients / Flocculants added:

Product	Quantity (units)	Frequency	Location

Energy Consumption Efficiency:

Aeration System:

no	Location	HP	SCFM	Hr/day
1				
2				
3				

Mixing System:

no	Location	HP	Amp.	Hr/day
1				
2				
3				

Description of problem(s) to solve or goals (your wish list):				

Process and instrumentation diagram of wastewater treatment plant: (show all treatment basins & water flow):



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