

Waste Water Treatment Lagoon 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), which 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.

This questionnaire should be filled out as completely as possible. If your system varies from the outline provided, please provide the relevant information to describe your system.

Please include relevant units of measure where applicable.

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



Characterization of Raw Waste Water:

Flow Rates (circle one: m³/d or MGD):

Average: _____
 Minimum: _____
 Maximum: _____
 Design: _____

Septage Received: _____ Y / N
 if YES,
 Daily Average Volume (units) _____
 Total Yearly Volume (units) _____
 Peak receiving months with average
 receiving volume for those months: _____

Wastewater Composition:

	%	Describe Industrial and other sources:
Domestic		_____
Industrial		_____
Other		_____

Physico-Chemical Parameters of Wastewater:

Parameter	Average (mg/L)	Minimum (mg/L)	Maximum (mg/L)	Parameter	Average (mg/L)	Minimum (mg/L)	Maximum (mg/L)
TOC				NO ₃ -N			
BOD				o-PO ₄			
COD				pH			
SS				Temp. (°C or F)			
VSS				TKN			
NH ₃ -N				CaCO ₃			
NO ₂ -N							



Lagoon Sludge Blanket:

	Average	Maximum	Goal	Height of Effluent Discharge Outlet
Lagoon 1				
Lagoon 2				
Lagoon 3				
Lagoon 4				

ATTACH SLUDGE DEPTH INVENTORY DATA IF AVAILABLE

Dissolved Oxygen Profile:

		AM Sample (mg/L)	PM Sample (mg/L)	Daily Average (mg/L)
Lagoon 1	Lagoon Head			
	Lagoon Middle			
	Lagoon Effluent			
Lagoon 2	Lagoon Head			
	Lagoon Middle			
	Lagoon Effluent			
Lagoon 3	Lagoon Head			
	Lagoon Middle			
	Lagoon Effluent			
Lagoon 4	Lagoon Head			
	Lagoon Middle			
	Lagoon Effluent			

Temperature Profile:

		Average (°C)	Minimum (°C)	Maximum (°C)
Lagoon 1	Winter			
	Summer			
Lagoon 2	Winter			
	Summer			
Lagoon 3	Winter			
	Summer			
Lagoon 4	Winter			
	Summer			



Process and instrumentation diagram:

System Performance:

	Lagoon 1		Lagoon 2		Lagoon 3		Lagoon 4		Final Effluent (mg/L)
	Influent (mg/L)	Effluent (mg/L)	Influent (mg/L)	Effluent (mg/L)	Influent (mg/L)	Effluent (mg/L)	Influent (mg/L)	Effluent (mg/L)	
TOC									
BOD									
COD									
SS									
VSS									
NH ₃ -N									
NO ₂ -N									
NO ₃ -N									
o-PO ₄									
pH									
TKN									



