

INNOQUA - demo site overview and performance in Romania



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General Information: Ilisesti Demo Site:



Demo-Site	Responsible	Location	Wastewater origin	Wastewater type	· Ichinadi
1	NUIG	Cattle Farm Craughwell, County Galway	Cattle farming (dairy wastewater)	Industrial	Rădăuti Bălţi
2	LBT	La Canourgue, France	Inland aquaculture	Industrial	Moldova
3	DE5	Vasto, Italy	Western single family	Domestic	Vatra Dornei lași
4	NBK	Anglet, France	Tertiary/ commercial building	Domestic	Piatra Neamt Chisinău Piatra Neamt Vaslui
5	SW	Littlemill, Scotland	Collective housing	Domestic	ârgu Mures
6	EKO	Sinop, Turkey	Collective housing	Domestic	Onești Bârlad Білгород-Дніс
7	RMC	Suceava county, Romania	Touristic Building	Domestic	
8	UCU/GYA	Quito, Ecuador	Residential building	Domestic	România Sfântu Gheorghe Focşani
9	BORDA	Mlalakuwa, Tanzania	Collective housing	Domestic	Sinaia Brăila Brăila
10	BORDA	Bangalore, India	Collective housing	Domestic	nnicu Buzău Tulcea Biosferei Delta Dunării
11	UCSM	Arequipa, Peru	University (labs, toilets, general use)	Domestic	Pitesti

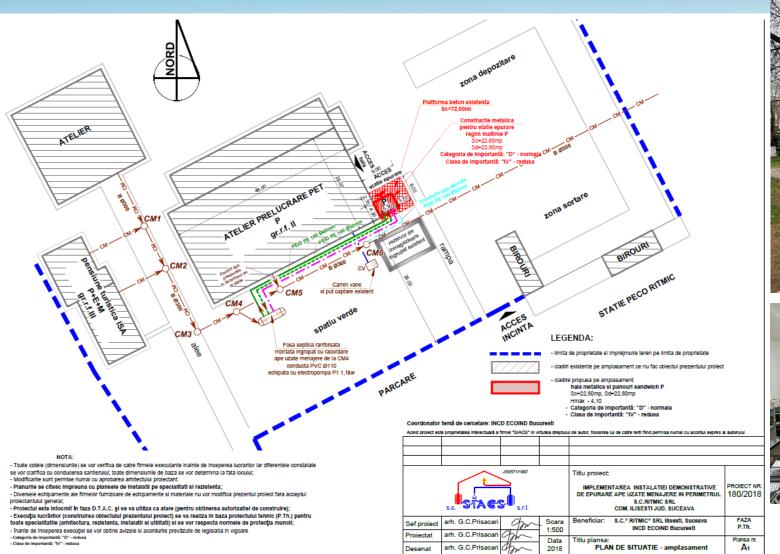


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Demo-site description





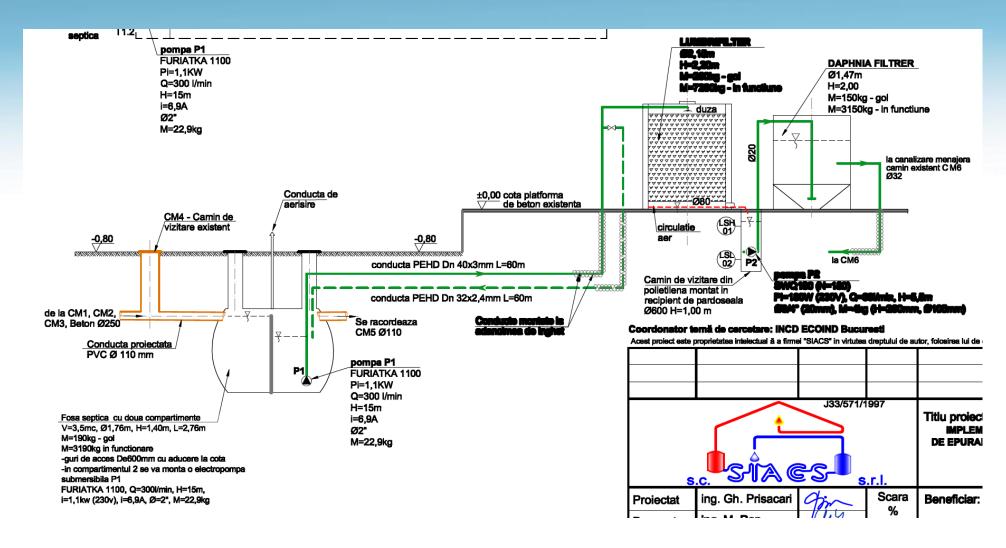






Installation layout







Lumbrifilter +DF



SEPTIC TANK

JMBRIFILTER

DAPHNIAFILTER









Romanian demo-site









All materials sourced locally (except tanks and MCU)

Inoculum:

Earthworms: Eisenia foetida and

Eisenia andrei.

Daphnia magna: Breeding lab scale.







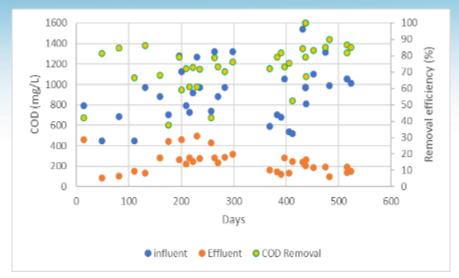
		TSS	COD	BOD	NH4	N-NO3-	Total N	Total P
Inlet system (mg/L)	average	355	922	421	40.5	0.68	103	9
	min	77	449	125	19	< 0.01	53	3.54
	max	1045	1540	681	98	1.6	207	13.5

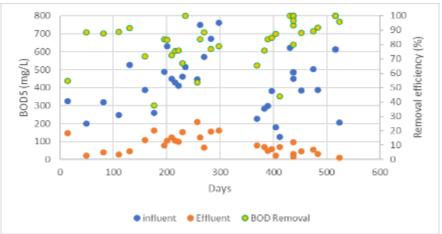
Average removal rates on LF - Romania demonstration site		Removal rate (%)						
	TSS	BOD_5	COD	NH ₄ -N	TP	PO ₄ -P	Turbidity	TN
Average (%)	64.05	77.17	70.91	65.95	35.83	25.41	73.43	55.38
Standard deviation (σ)	±20.5	±15.17	±13.86	±18.47	±15.9	±15.59	±14.92	±20.38
Median	69.32	83.42	73.1	70.22	32.94	23.07	78.33	61.94

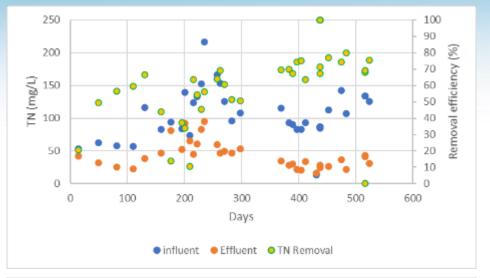


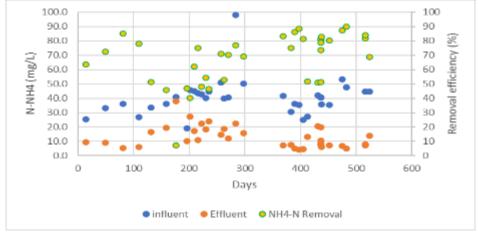
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Influent-effluent quality and removal performances of the lumbrifilter Romanian demo-site











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Thankyou for taking part!

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