

1 Table 1

2	OTU	Taxon	Accession	Identity	Number of clones
3					
4		Nitrosomonas sp. 16S rRNA gene, clone 74	AJ224410	98	
5	1	Uncultured Nitrosomonas sp. clone 14	EU017378	98	5
6		Nitrosomonas eutropha C91	NR_027566	98	
7		Uncultured bacterium clone PISD-ANB10	AM982631	99	
8	2	Nitrosomonas sp. IWT514	AF363293	98	2
9		Nitrosomonas sp. 16S rRNA gene, clone 74	AJ224410	94	
10		Uncultured bacterium clone FFCH8219	EU134522	91	
11		Uncultured bacterium clone BG.c4	DQ228369	90	
12	3	Uncultured delta proteobacterium clone			5
13		GASP-MA1W2_F10	EF662711	91	
14		Environmental 16s rDNA sequence from			
15		Evry wastewater treatment plant anoxic	CU466836	91	
16		basin			
17	4	Uncultured bacterium clone 4	FJ534951	91	2
18		Uncultured gamma proteobacterium clone			
19		TH1-87	AM690880	93	
20		Uncultured bacterium 16S rRNA gene,			
21		clone BIjii2	AJ318153	96	
22	5	Uncultured bacterium clone C9-E06	FJ930332	93	2
23		Bacteroidetes bacterium ONC1	FN554385	92	
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1 Table 2

Parameters	Influent (mg/L)	Effluent (mg/L)	Removal rate (%)
pH	8.0±0.2	8.2±0.3	
NH ₄ -N	130±15	27±9	79.2
NO ₂ -N	117±6	12±14	89.7
NO ₃ -N	4±4	4±3	
T-N	262±18	76±24	71.0
Soluble TOC	209±26	205±13	1.9
SS	33±36	10±15	69.7

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1 Table 3

OTU	Taxon	Accession	Identity	Number of clones
1	Planctomycete KSU-1	AB057453	100	24
2	Planctomycete KSU-1	AB057453	92-99	6
	Uncultured Planctomycetales bacterium clone DTU1-13	FJ710639	98	
3	Uncultured Planctomycetales bacterium clone DTU2-11	FJ710643	98	3
	Candidatus Brocadia anammoxidans	AF375994	94	
	Bacterium enrichment culture clone 1.21	GQ162347	99	
4	Uncultured bacterium clone: A4 Uncultured Chloroflexi bacterium clone: HAuD-MB35	AB462405 AB113606	99 97	2
	Uncultured Bradyrhizobium sp. clone 63-40	DQ917257	99	
5	Bradyrhizobiaceae bacterium SG-6C Uncultured bacterium clone K13C-CuHDO-5	GU324241 HM146368	97 99	1
	Uncultured alpha proteobacterium clone 5P43	AJ871069	99	
6	Uncultured Rhizobiales bacterium clone HF4000_48A13	EU361397	99	1
	Parvibaculum lavamentivorans strain DS-1	NR_029105	99	

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