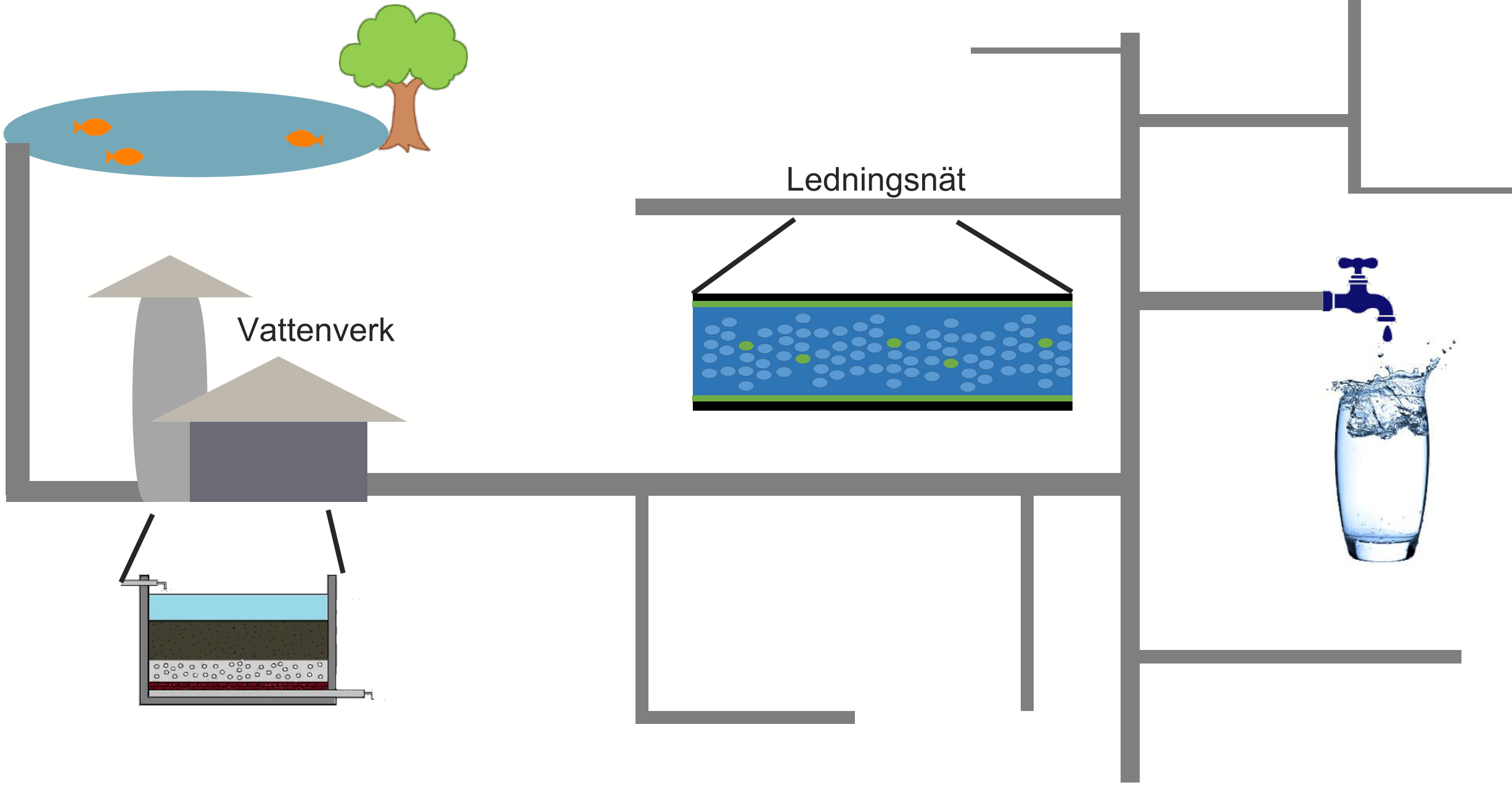
En doktor presenterar

Processes governing the drinking water microbiome

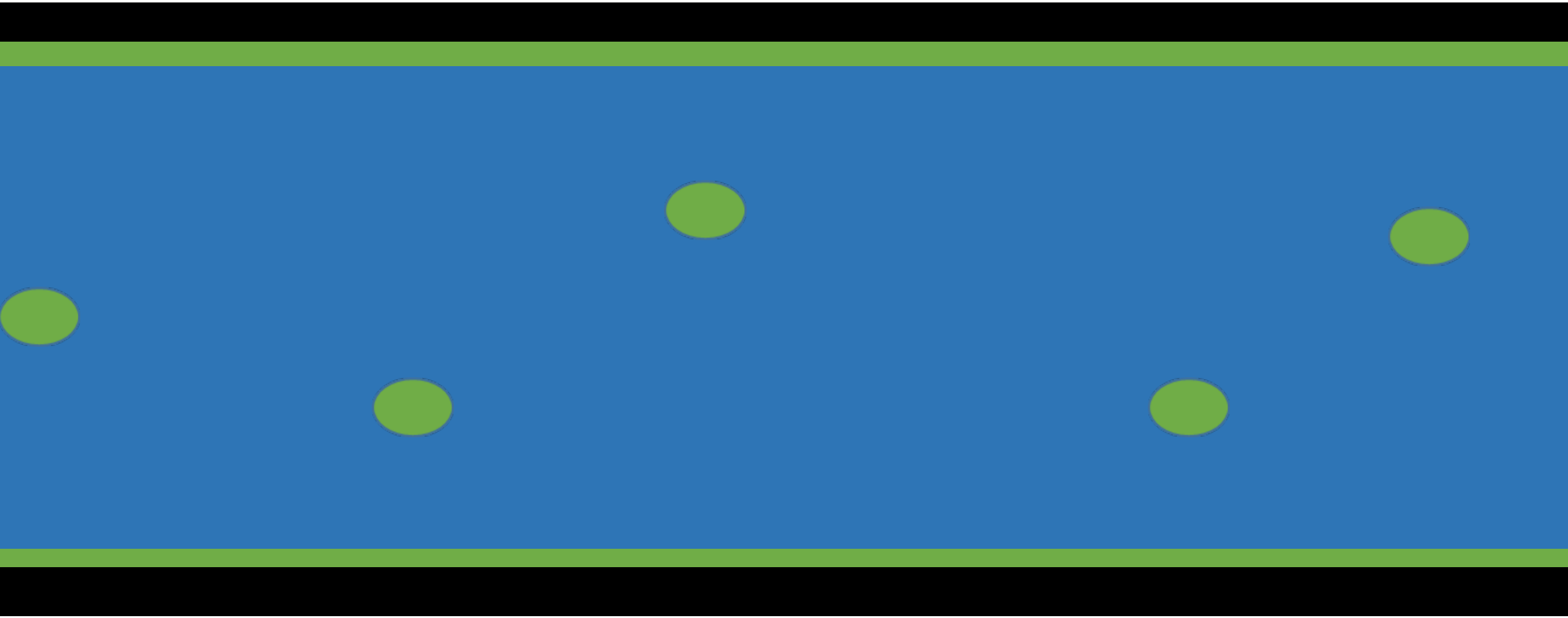
Sandy Chan

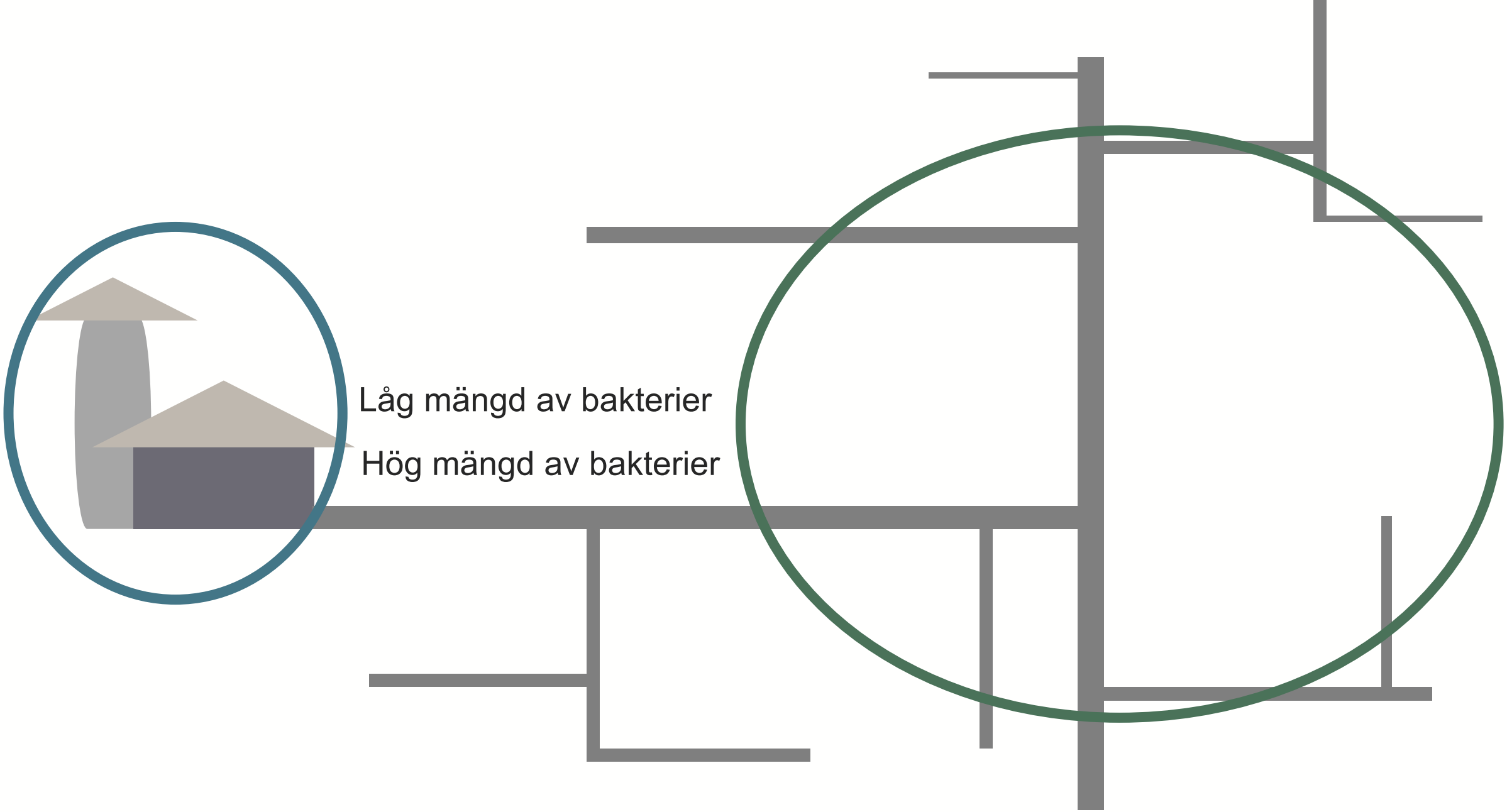
LUNDS UNIVERSITET

sweden water research

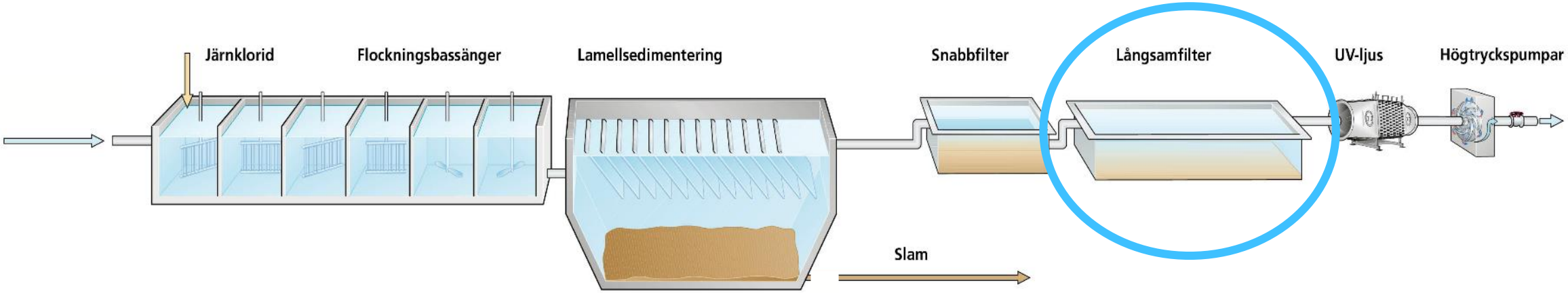

Ledningsnät
Vattenverk

Biofilmen i vårt ledningsnät

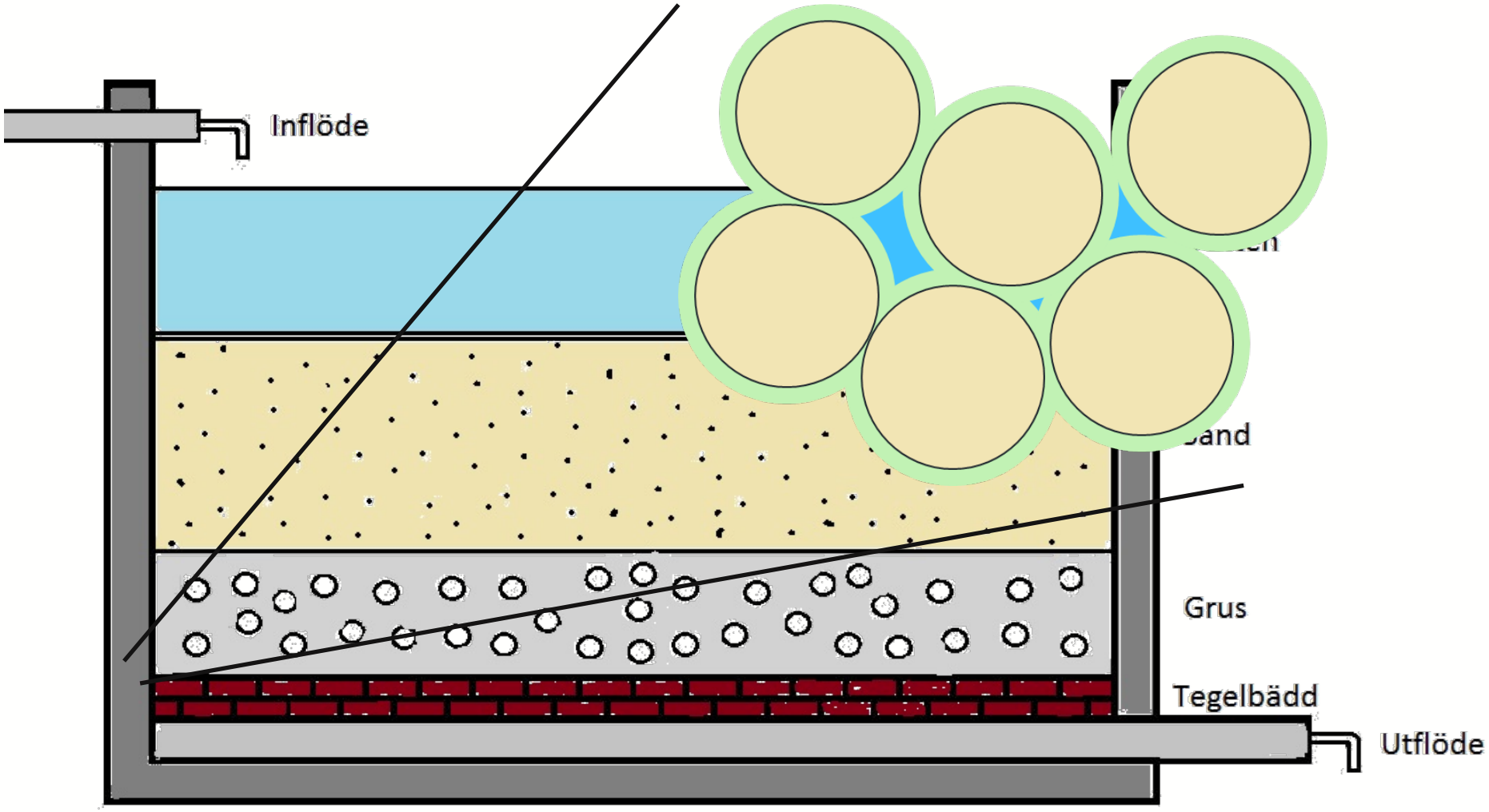



Låg mängd av bakterier
Hög mängd av bakterier

Ringsjöverket



Långsamfilter



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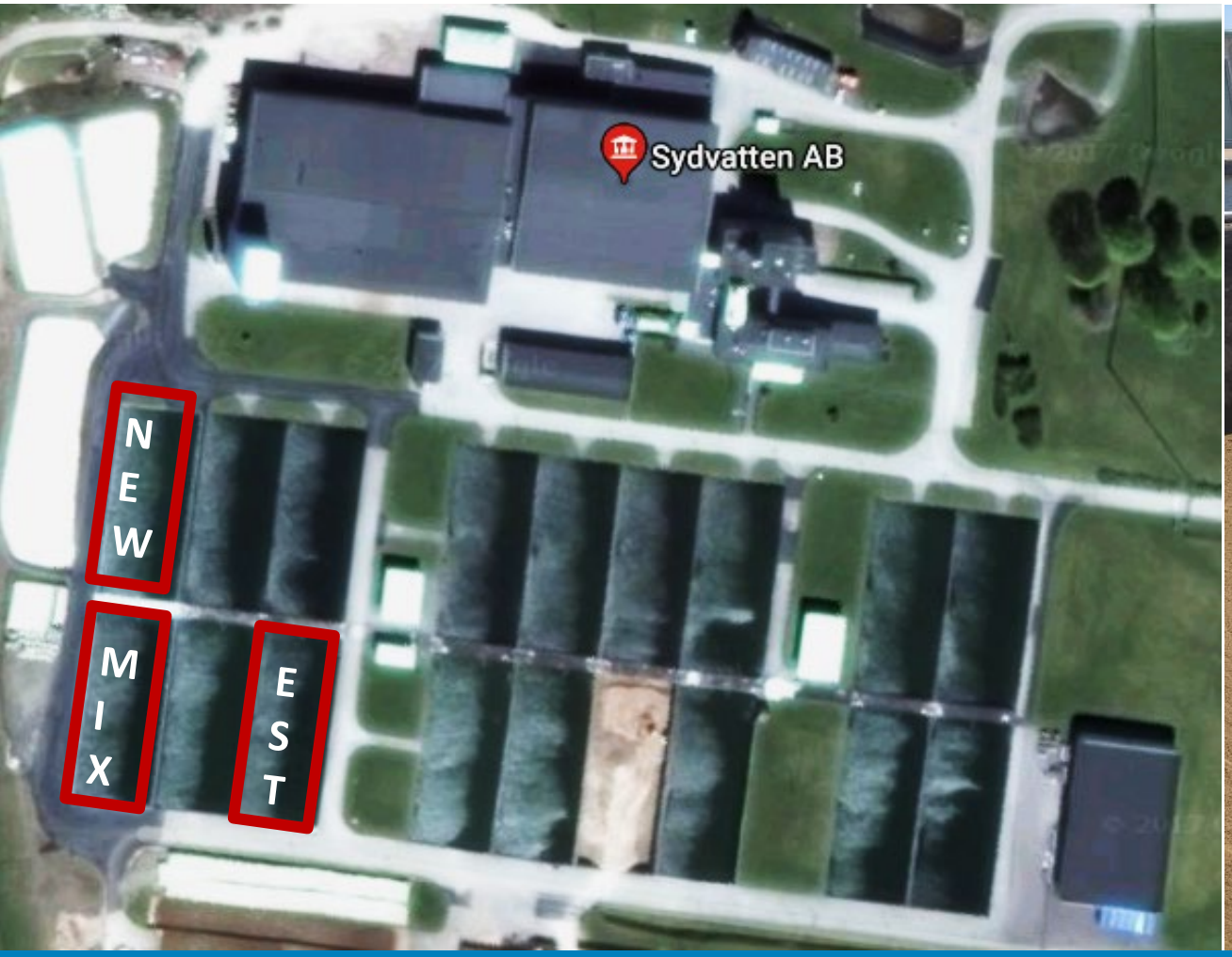

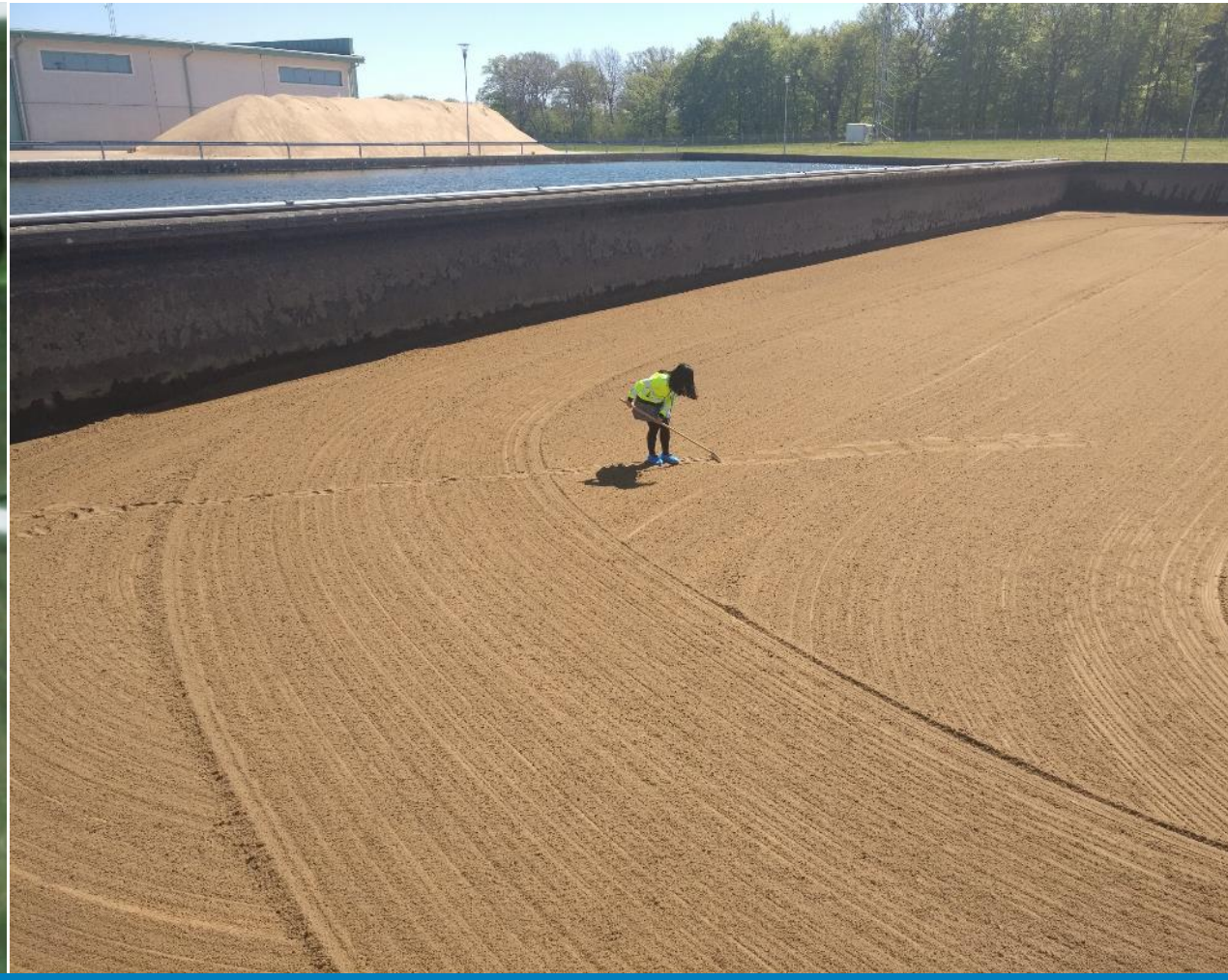

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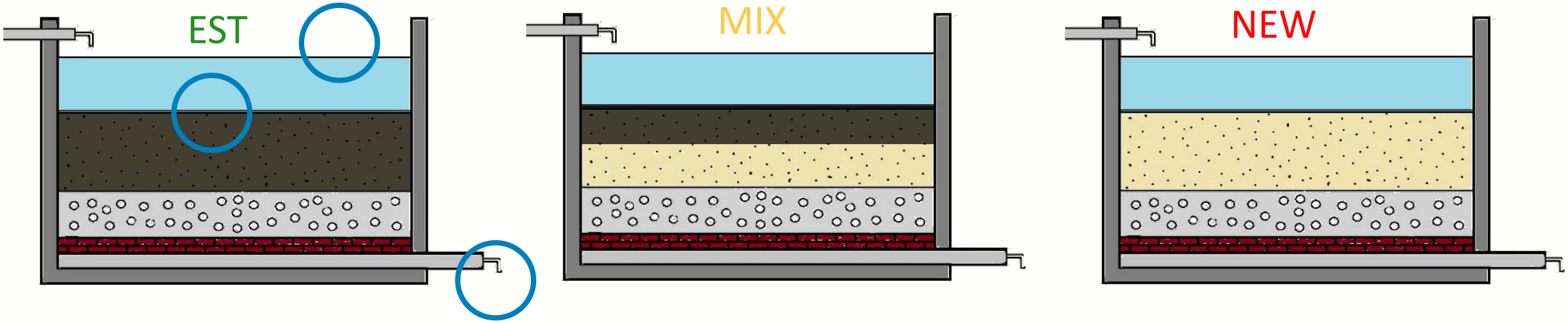
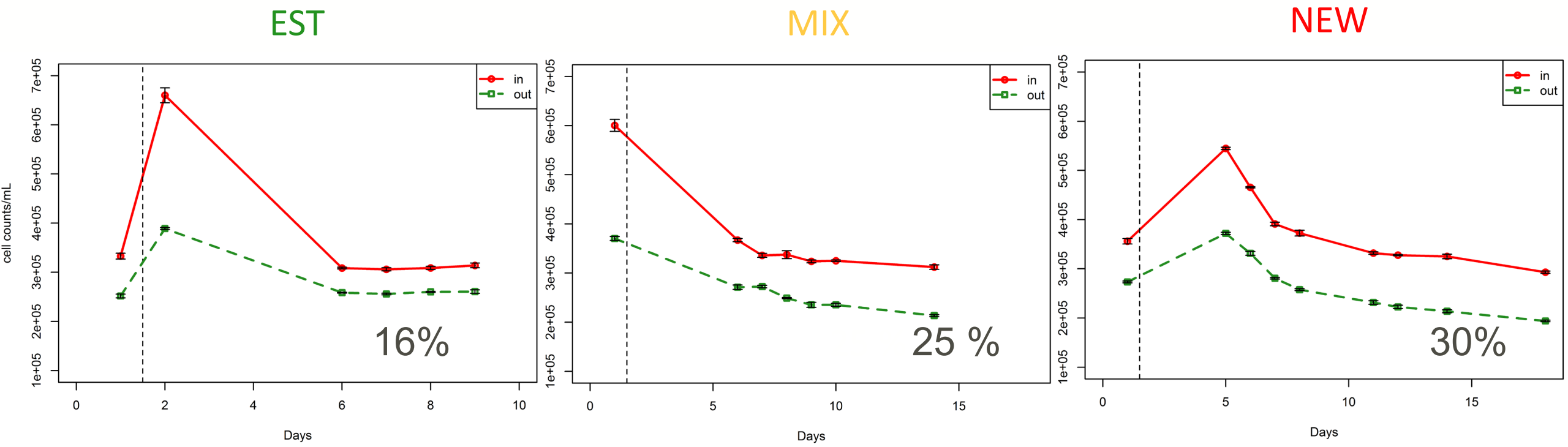
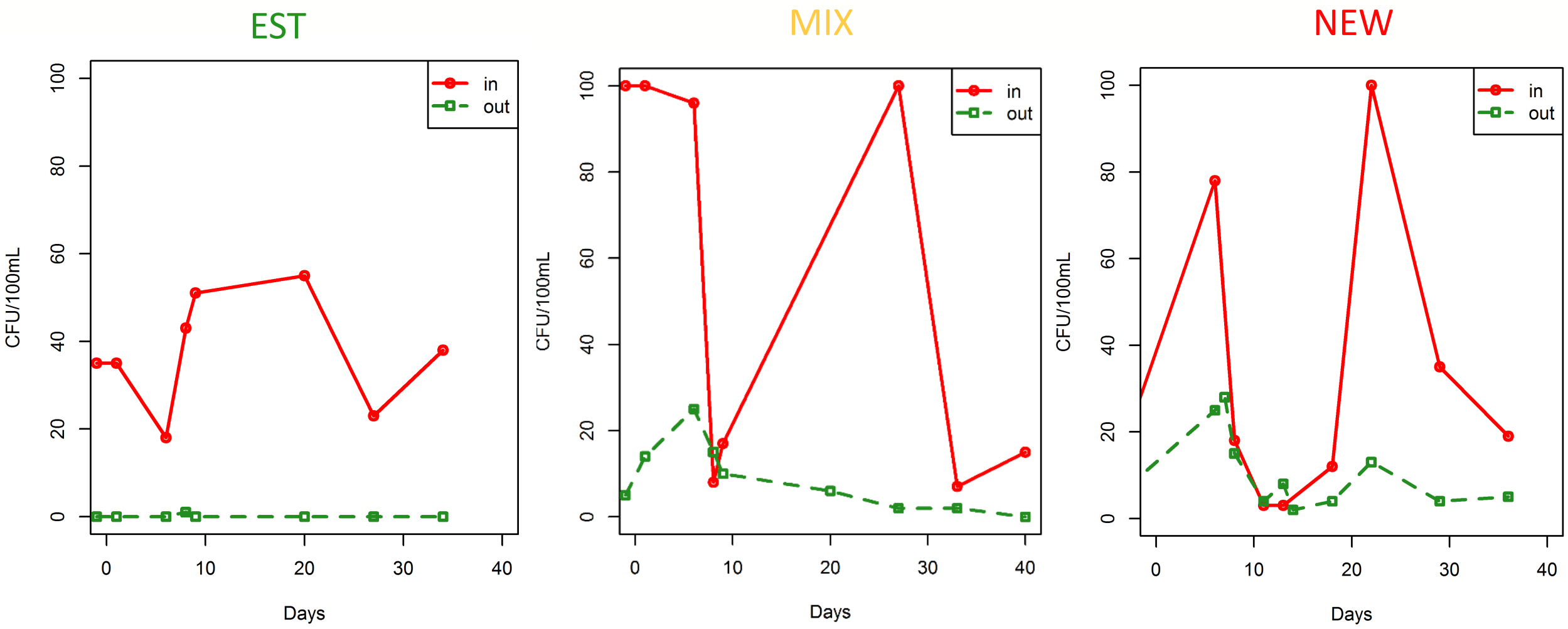


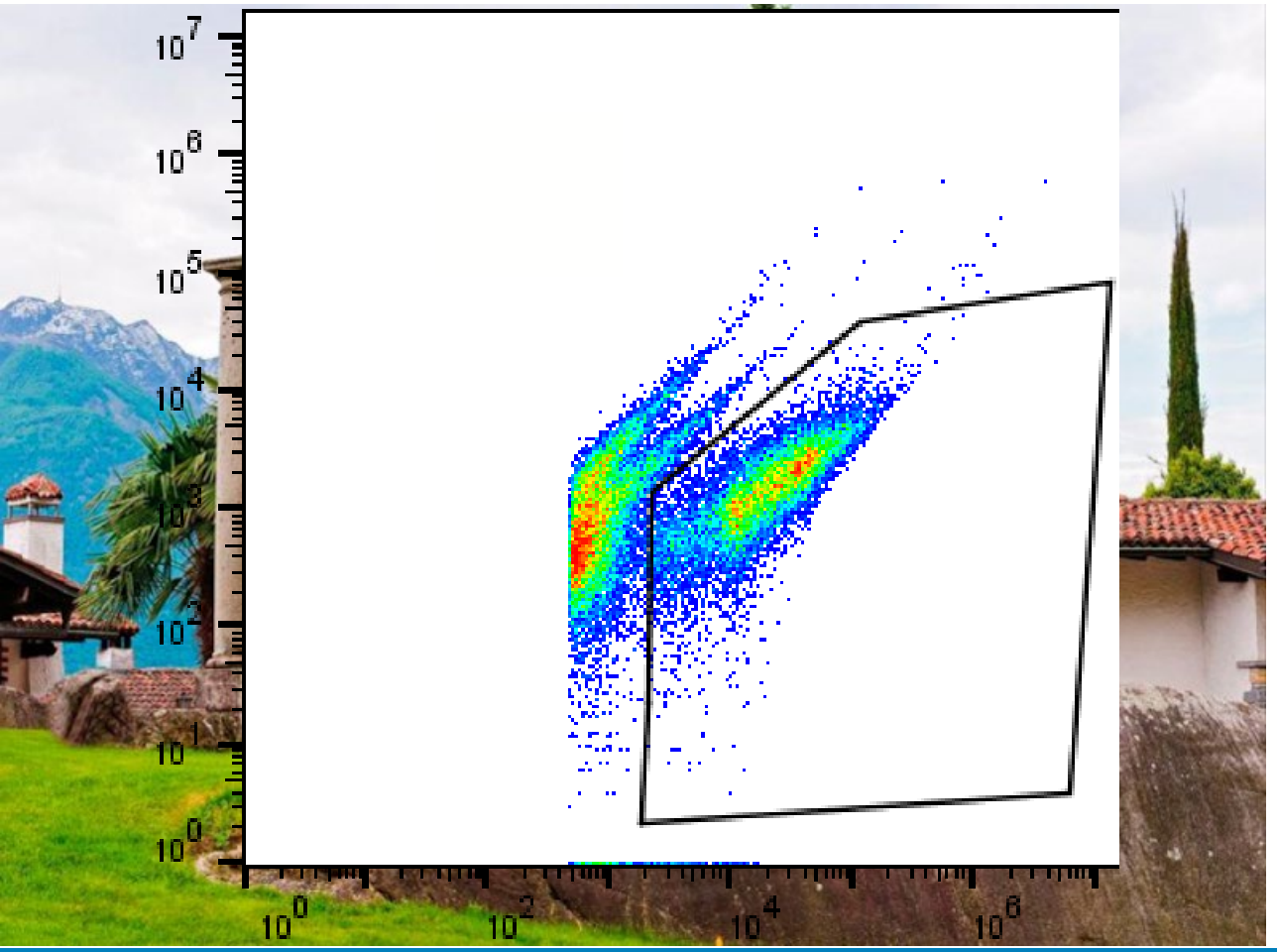
Reduktion av bakterier

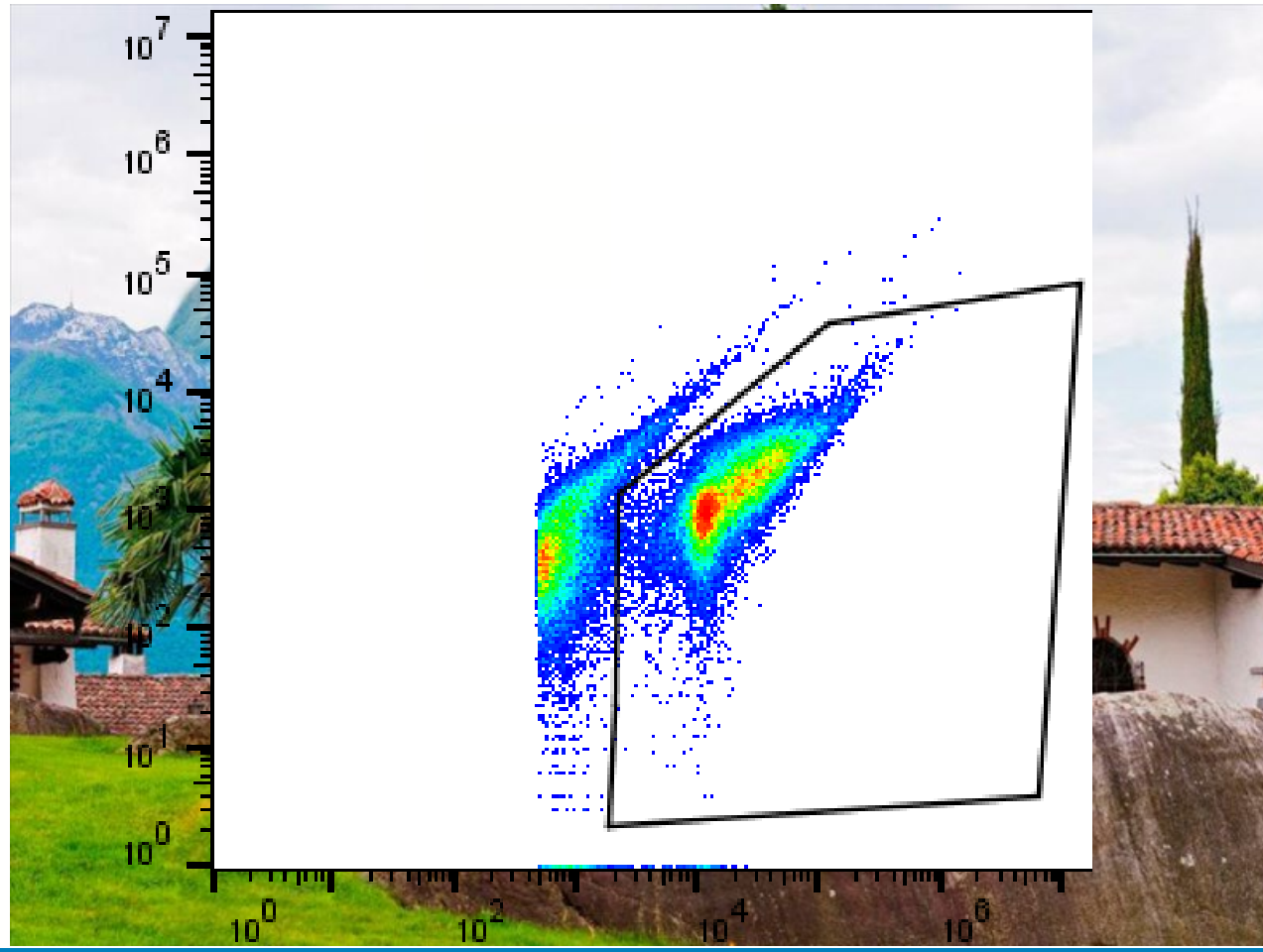


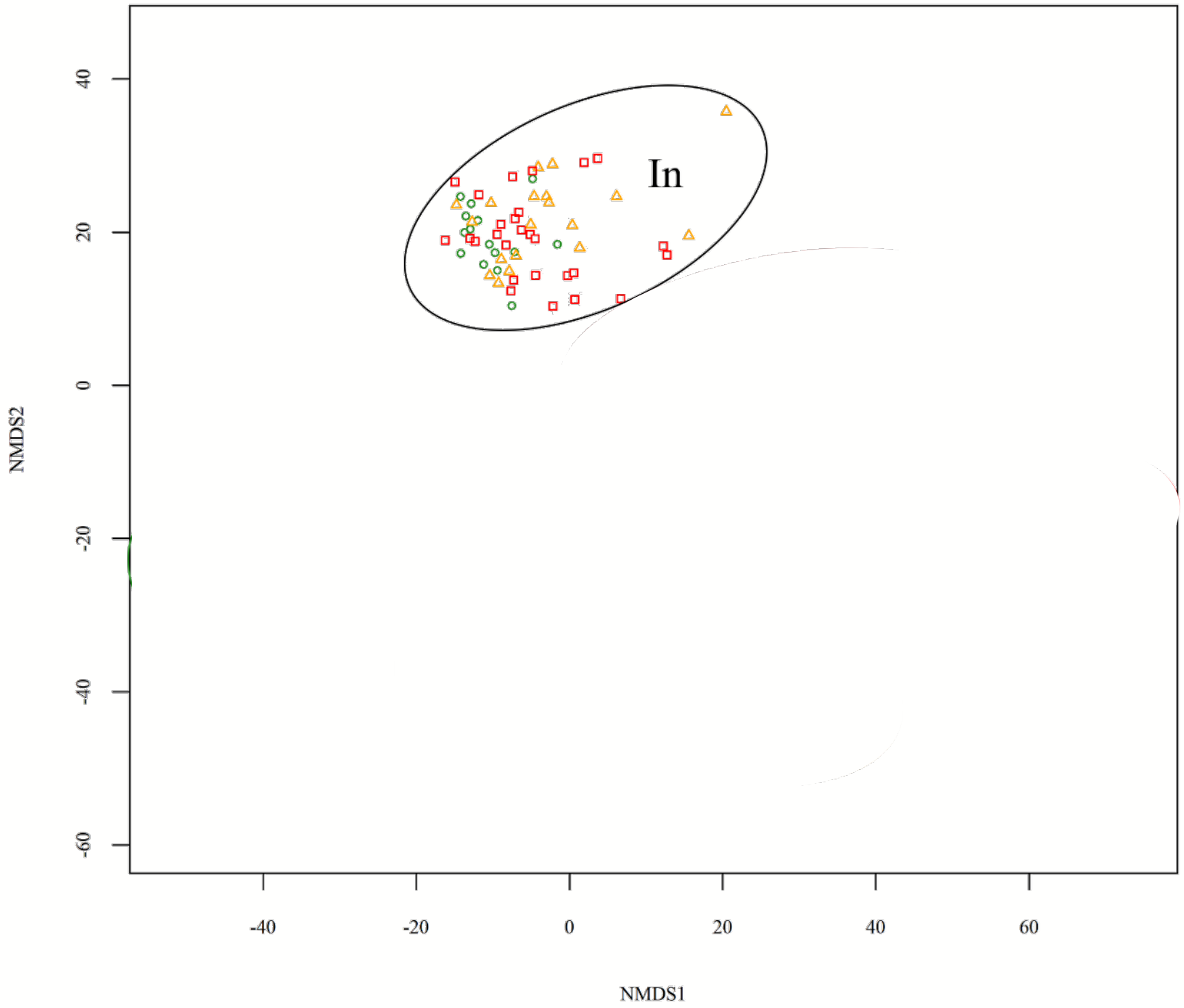
Reduktion av koliforma bakterier

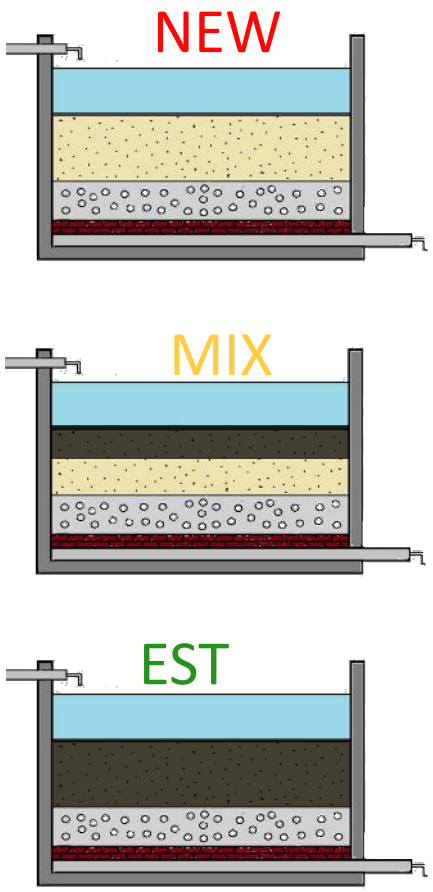


Jämföra bilder
Cytometric histogram image comparison (CHIC) analysis









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DNA sekvensering

OTU	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Sample 7	Sample 8	Sample 9	Sample 10	Sample 11	Sample 12	Sample 13	Sample 14	Sample 15	Sample 16	Sample 17	Sample 18	Sample 19	Sample 20
New.ReferenceOTU205	241	313	108	26	26	9	10	14	29	26	33	837	0	47	269	744	669	0	0	1
112204	170	209	57	16	17	16	6	17	15	17	18	541	0	29	165	530	402	0	0	0
692284	331	355	115	30	23	20	14	23	14	43	31	1094	1	44	281	1111	768	0	1	1
New.ReferenceOTU76	67	23	20	87	104	104	139	138	154	142	182	21	165	133	48	46	21	189	185	171
New.ReferenceOTU167	47	17	14	101	105	140	155	148	119	114	129	29	141	165	33	33	34	173	126	200
578572	33	28	26	81	103	129	120	141	117	88	94	31	128	83	30	28	19	76	99	118
346376	26	11	10	68	96	150	133	113	124	89	104	11	146	90	30	50	13	132	160	171
331274	191	91	121	338	307	330	292	373	386	356	423	152	404	468	156	147	131	656	537	399
789011	202	44	76	278	328	384	402	496	457	344	436	86	521	332	160	121	78	561	632	541
331849	86	22	46	98	95	123	82	122	119	138	147	51	141	190	85	40	73	163	174	125
554981	72	265	654	73	99	6	2	72	98	11	0	1308	0	2	61	301	41	0	1	0
New.ReferenceOTU228	65	28	88	184	196	229	181	123	176	143	159	106	189	310	65	39	78	100	110	161
806676	43	18	49	179	204	229	181	171	140	162	137	52	203	196	62	25	45	135	105	194
846011	167	90	128	542	484	515	410	423	313	572	463	79	553	277	178	63	88	387	373	526
2801322	23	14	35	136	187	127	165	116	87	63	70	49	151	150	19	25	31	147	182	133
28705	72	60	153	323	385	493	402	273	254	374	302	155	362	523	138	66	103	167	144	301
36013	58	34	88	227	261	329	293	184	217	197	197	120	222	280	78	43	48	98	87	173
807421	52	16	94	173	200	224	186	152	118	193	90	97	166	320	56	44	59	83	64	153
2400243	38	10	9	138	130	94	143	149	145	67	66	14	166	33	29	20	11	187	153	156
New.ReferenceOTU500	36	23	20	166	182	131	206	158	161	96	145	16	199	28	34	24	14	247	265	131
New.ReferenceOTU345	112	65	28	527	587	534	676	587	529	367	373	47	735	147	122	95	42	929	964	659
737260	45	14	8	183	200	207	241	187	158	98	94	11	275	48	24	29	8	208	205	214
New.ReferenceOTU160	73	21	10	88	133	187	90	88	98	137	115	30	84	130	60	26	18	54	45	81
154342	35	26	28	154	284	230	259	145	112	64	122	31	199	148	35	56	27	38	54	149
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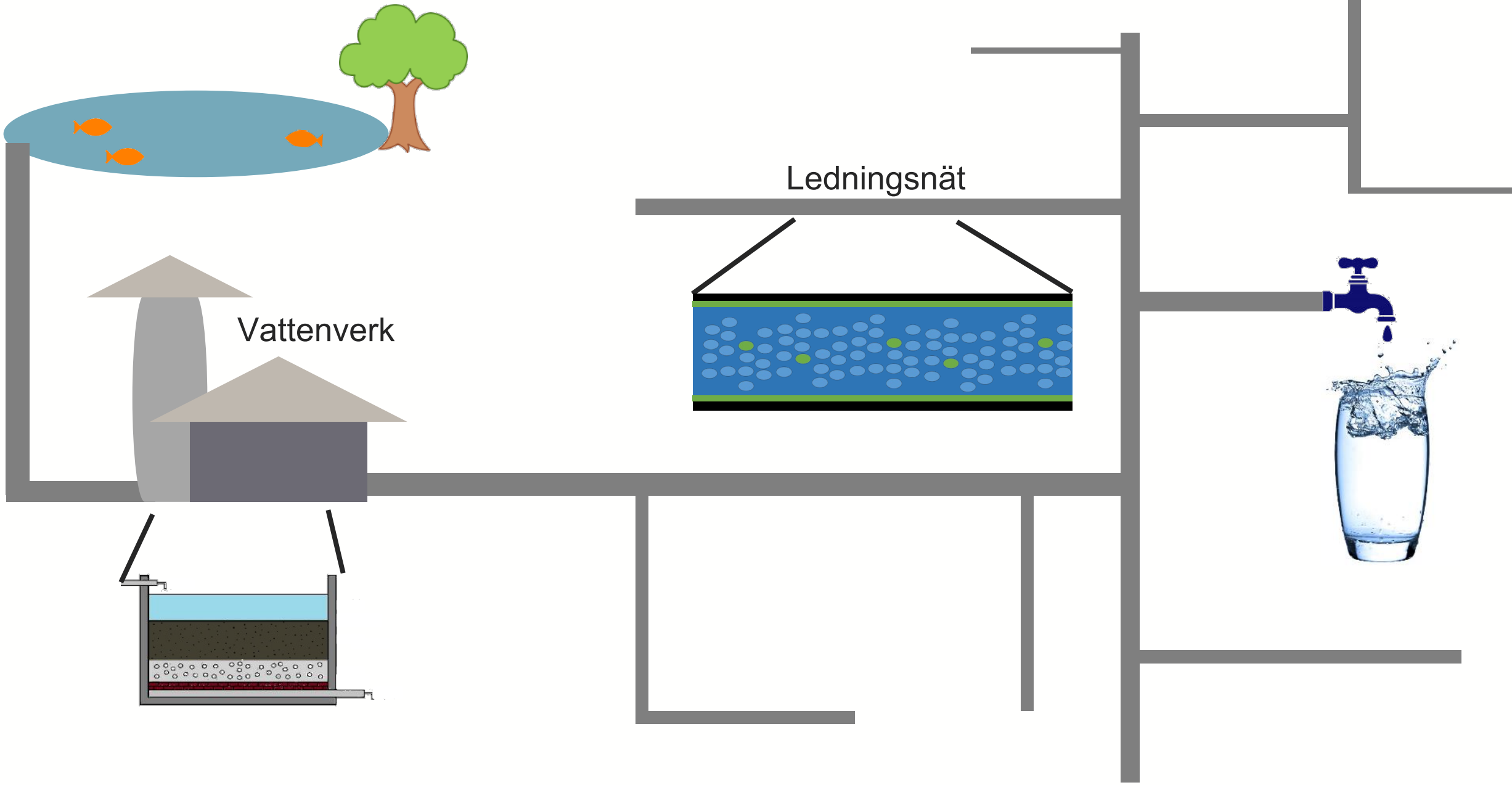
Ledningsnät
Vattenverk

Vetenskapsrådet

sweden water research

Svenskt Vatten
Swedish Water & Wastewater Association

DRICKS

SYDVATTEN

VASYD

MSB

VIVAB
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NSVA

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Tack!

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