Fish (Cichlids):

Table 2- results of applying Saiseiko SEM to fish tanks growing cichlids

Parameter	Result
Growth time	Reduced by 33%
Fish loss	0%

There was significant loss when transferring the fish to another tank before delivery. This is assumed to be a result of the change in water quality. An up-scaled test will include gradual change of the water at the end of the process to prevent this phenomenon.

| Treated | Control |
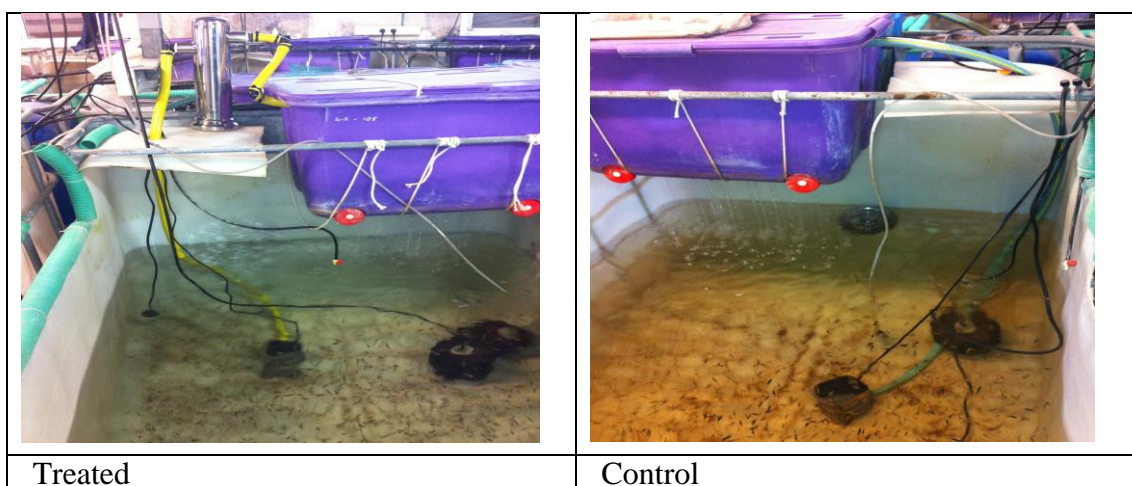
3. Laboratory Analyses

HUJI water technology lab test on water from the cucumber field test:
There is clearly and effect of the SEM on the water's chemistry.

Table 3 –water analyses from the cucumber field test

Sample	TDS (ppm)	EC (MilS)	Alkalinity	pH (ppm)	Mg (ppm)	Ca (ppm)	Na (ppm)	Al (ppm)	B (ppm)	Ba (ppm)	P (ppm)	Mn (ppm)	Fe (ppm)	K (ppm)
Average IN	540	0.776	196	7	17.57	68.83	55.33	0.02	0.09	0.097	0.9	0.18	0.03	7.7
Average OUT	463	0.756	193	7.267	17.37	67.27	54.33	0.02	0.077	0.097	0.9	0.17	0.043	7.7
Difference	-77	-0.02	-2.5	0.267	-0.2	-1.57	-1	0	-0.01	0	0	-0.01	0.013	0
Ratio	-14%	-3%	-1%	4%	-1%	-2%	-2%	0%	-15%	0%	0%	-6%	44%	0%

Commercial lab test on water from the fish field test:
Only one sample was taken from the SEM and the Control.
Some increase in Dissolved Oxygen, COD and Nitrate were observed. More lab tests are needed to make more solid conclusions.

4. Preliminary Summary:

It can be carefully concluded that:

The Saiseiko SEM system affects the chemistry of the water. The Saiseiko SEM system affects the growth of cucumbers and fish.

Repeated field testing and intensive lab tests are required in order to prepare a model of the Saiseiko SEM system operation and find the optimized way to operate it.