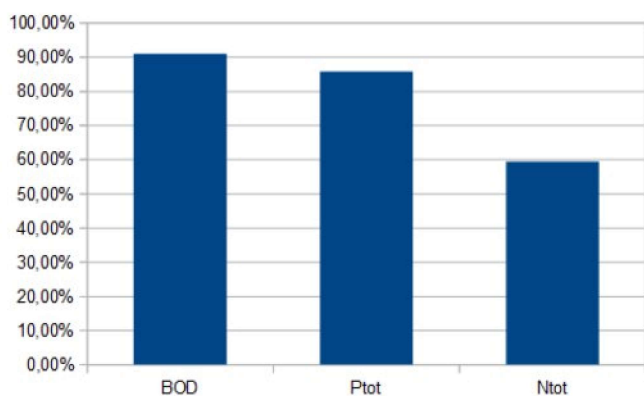
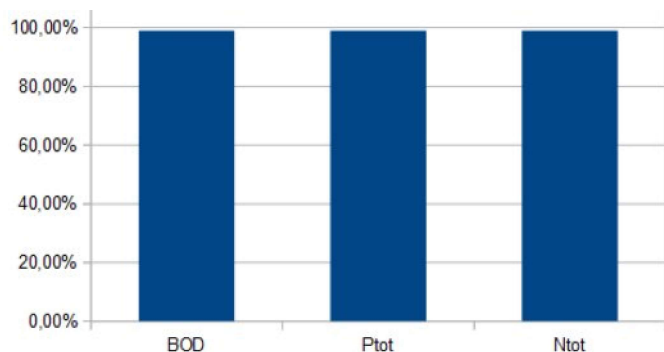


Raita BioBox purification efficiency

Purification efficiency has been tested by impartial official testing **in field circumstances** during 2009 - 2016 with different Raita BioBox models (x).



The purification efficiency of the **grey water** purification was 91 % for BOD, 86 % for Ptot and 59 % for Ntot.



According to **official calculating method (which includes also the load of toiletwaters)** used in legislation in Finland and in Sweden the purification was 99 % for BOD, 99 % of Ptot and 99 % of Ntot.

93 % of the results (25/27) were above the level which is required for waternear and groundwater areas in Finland (BOD 90 %, Ptot 85 %, Ntot 40 %) and Sweden (MB 1998:808 – NFS 2006:7 (BOD 90 %, Ptot 90 %, Ntot 50 %)).

100 % of the results were according to levels required for normal areas.



Raita BioBoxes are scaled from the smallest model to the largest. They all have same purification principle - "trickling filter" and the dimensioning rate of the filter/ grey water volume and retention time is same in all the models (M, XL and XL+).



BOD = Biological Oxygen Demand, measures organic load
 Ptot = Total phosphorus
 Ntot = Total nitrogen

(x)

[Link to analyzes taken by Valonia and analyzed by Ramboll](#)