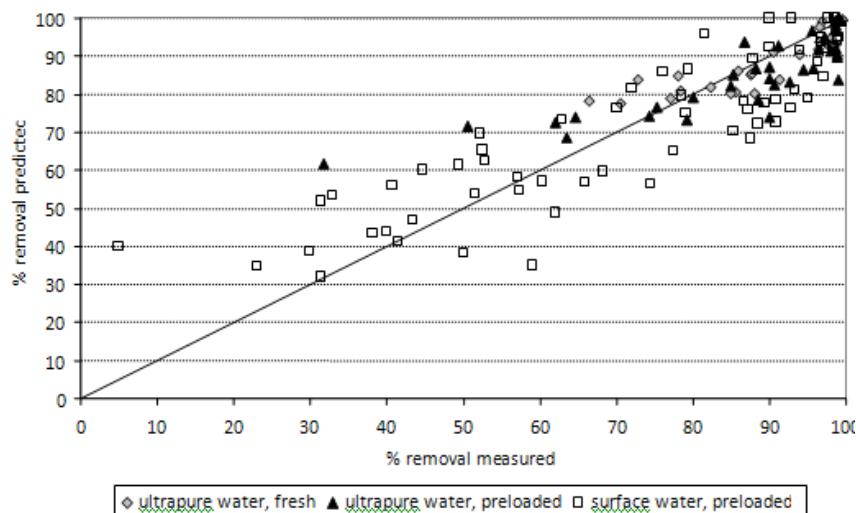Original article

ultrapure water fresh carbon	$C_e/C_0 = - 0.018*\log D - 0.011*charge - 0.327*\log$ (carbon concentration) + 0.513	N=30
ultrapure water preloaded carbon	$C_e/C_0 = - 0.061*\log D - 0.216*charge - 0.249*\log$ (carbon concentration) + 0.516	N=39
surface water preloaded carbon	$C_e/C_0 = - 0.047 \log D - 0.128*charge - 0.538*\log$ (carbon concentration) + 1.089	N=62

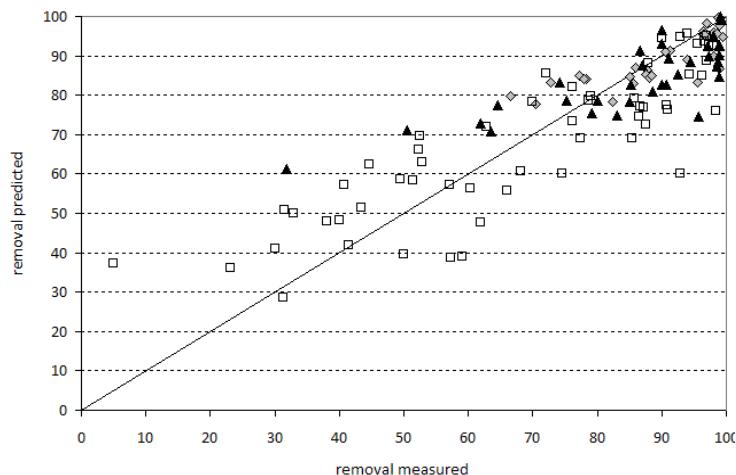| Ultrapure water, fresh carbon	ultrapure water, preloaded carbon	surface water, preloaded carbon
$R^2=0.74$; $Q^2_{loo}= 0.66$	$R^2=0.64$; $Q^2_{loo}= 0.54$	$R^2=0.74$; $Q^2_{loo}= 0.71$

Training set

Validation set
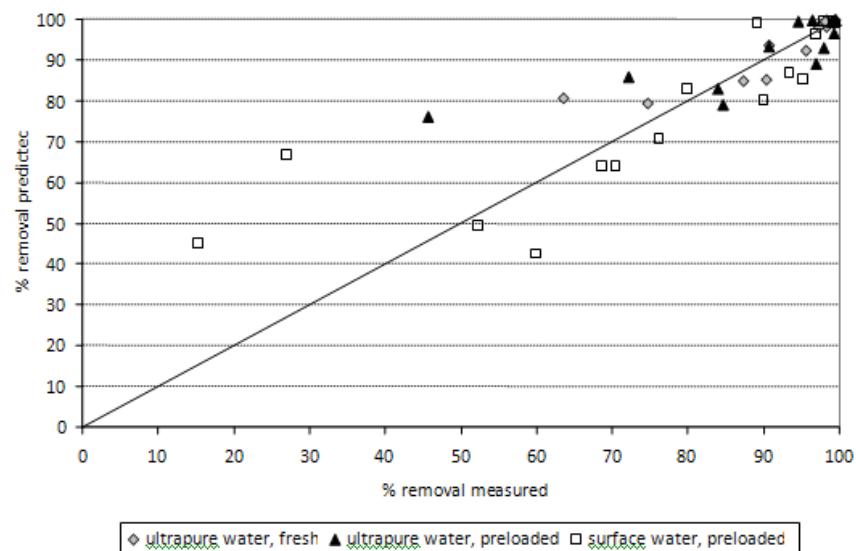
Revised article

| ultrapure water fresh carbon | Ce/C0=-0.032*logD +0.016*charge - 0.285*logCC + 0.44 | N= 34 |
	Max carbon concentration : 100 mg/ 2.25 liter	
ultrapure water preloaded carbon	Ce/C0=-0.065*logD - 0.060*charge - 0.250*log CC + 0.43	N= 40
	Max carbon concentration : 100 mg/ 2.25 liter	
surface water preloaded carbon	Ce/C0=-0.049*logD - 0.075*charge - 0.534 log CC + 1.04	N= 62
	Max carbon concentration : 200 mg/ 2.25 liter	

CC = carbon concentration

Ultrapure water, fresh carbon	ultrapure water, preloaded carbon	surface water, preloaded carbon
R^2= 0.65; Q^2_{loo}= 0.54	R^2=0.58; Q^2_{loo}= 0.45	R^2= 0.75; Q^2_{loo}= 0.71

Training set

Validation set
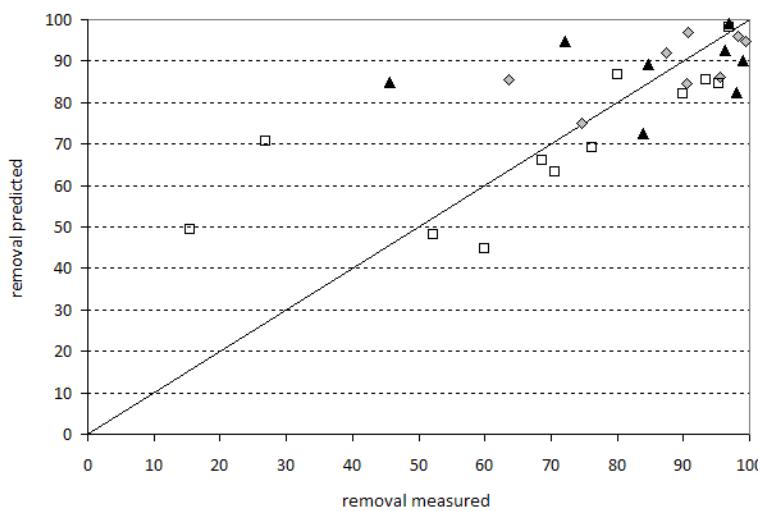
◇ ultrapure water, fresh   ▲ ultrapure water, preloaded   □ surface water, preloaded