

Trichloroethylene (TCE) removal from water by TC-75

Table 13. Sorbent mass, porosity, flow rate and residence time information for the TC-75 column experiment.

Sorbent	Mass Sorbent		Porosity	Flow Rate		Residence (min)
	(kg)	(lb)		(mL/min)	(gal/hr)	
TC-75	0.18	0.4	0.18	2.18	0.035	31

Table 14. 95% breakthrough for the two sorbents given in pore volumes and minutes along with estimated mass of TCE sorbed per mass of sorbent in mg/kg, lb/lb and percent basis.

Sorbent	Breakthrough			Mass sorbed		Mass Sorbed/Mass Sorbent		
	PV	BV	min	(mg)	(lb)	(mg/kg)	(lb/lb)	(% by sorbent)
TC-75	447	80.5	13857	4379	0.010	24328	0.0243	2.43

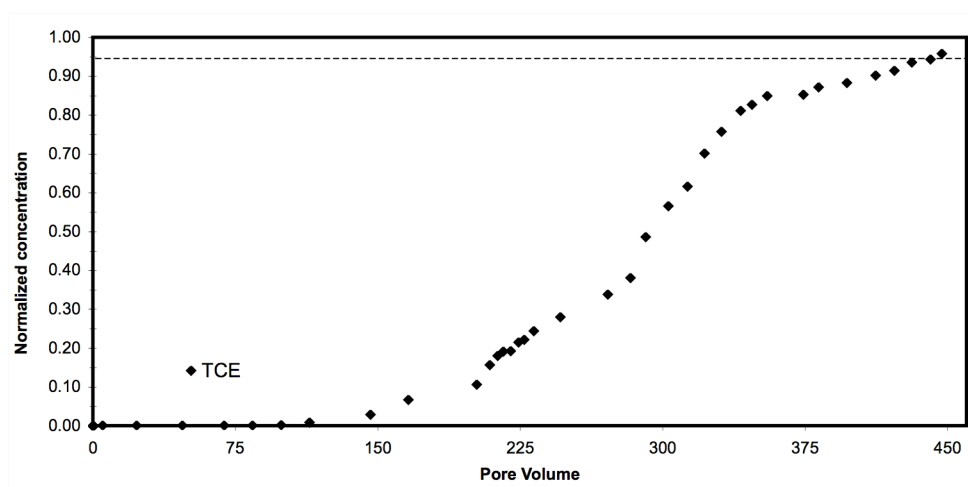


Figure 13. Breakthrough curve (in terms of pore volume) of TCE through a column of TC-75 sorbent.

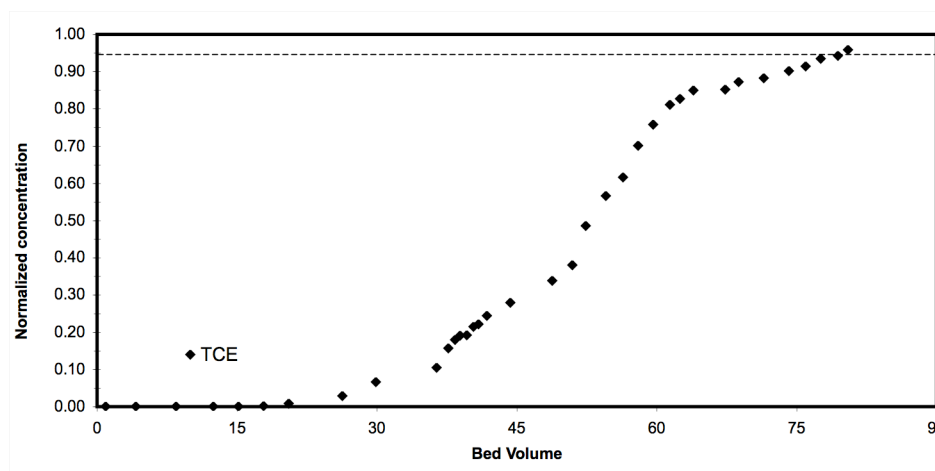


Figure 14. Breakthrough curve (in terms of bed volume) of TCE through a column TC-75 sorbent.