

Microbial Degradation of BTEX in Aquifer Microcosms or Soils Enrichments - Update

Electron acceptor	Electron donor	Reaction	Electron acceptor/donor	Eh, mV
Aerobic O_2	BTEX	$O_2 + 4H^+ + 4e \rightarrow 2H_2O$	3	+820
Anaerobic NO_3^- Fe_{+3}	TEX BT	$NO_3^- + 12H^+ + 10e \rightarrow N_2 + 6H_2O$ $FeOOH + HCO_3^- + 2H^+ + 2e \rightarrow FeCO_3 + 2H_2O$	5 22	+740 -50
SO_4^{2-} CO_2	BTX ToX (T)	$SO_4^{2-} + 9H^+ + 8e \rightarrow HS^- + 4H_2O$ $CO_2 + 8H^+ + 8e \rightarrow CH_4 + 2H_2O$ $+ 5H_2O \rightarrow 2.5CO_2 + 4.5CH_4$	4.5 2(CO_2/T)	-220 -240

