



CARBON SIZING FORMULA		
EMPTY BED CONTACT TIME (EBCT)		
EBCT In MINUTES	=	$\frac{\text{BED VOLUME (FT}^3\text{)} \times 7.481 \text{ GAL/FT}^3}{\text{FLOW RATE (GPM)}}$
BED VOLUME	=	$\text{TANK AREA (FT}^2\text{)} \times \text{DEPTH (FT)}$
EBCT FOR SOME COMMON CONTAMINANTS		
CHLORINE	=	2 MINUTES
HYDROGEN SULFIDE H ₂ S	=	4 MINUTES
VOC'S	=	7 MINUTES
PFAS/PFOA	=	10 MINUTES
USE THIS FORMULA WHEN YOU HAVE TO DETERMINE THE AMOUNT OF CARBON YOU NEED TO TREAT ONE OF THE ABOVE THREE CONTAMINANTS		
BED VOLUME	=	$\frac{\text{CONTACT TIME} \times \text{FLOW RATE (GPM)}}{7.481 \text{ GAL/FT}^3}$