



BOYANCY DESIGN		
Sybr-Aer FT Series 1400 (500-600 GPD)		
Materials		
Soil (dry)	(lbs/cf)	90.0
Void Ratio	%	28.00%
Water	(.lbs/cf)	62.4
Saturated Soil	(lbs/cf)	107.5
Soil (net)	(lbs/cf)	72.5
Concrete	(lbs/cf)	150.0
Tank Data		
Tank Weight	(lbs)	600.0
Volume - Flooded	(gal)	1410.32
Volume - Redundant On/Off Water Level @ 19"	(gal)	(366.5)
Volume - Design	(gal)	1,043.82
Volume - Design	(cf)	139.6
Displaced Weight	(lbs)	8,708.47
Boyant Force	(lbs)	8,108.47
Tank Projected Area	(sf)	53.5
Cover Required Soil (dry)	(in)	5.0

