Spill Volume Calculation

Elvis Tank Battery Facility 6/3/19 Spill

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Area	Length (ft)	Width (ft)	Depth (in)	Volume (bbl)
1	50	20	0.5	0.3
2	65	20	2	1.6
3	75	20	2	1.9
			Total Volume Oil Absorbed (bbl)	3.8
Standing Oil Volume				
Total Fluid Recovered (bbl)	5			
			Total Volume Oil Recovered (bbl)	1.3
Total Spill Volume (A	bsorbed Oil Volume	+ Standing Oil Vo	lume)	
			Total Volume (bbl)	5.1

Absorbed Oil Volume

Volume (bbls) = [Length x Width x Depth x Porosity x (1- water saturation)]/bbl conversion factor

Porosity = 0.17 (on pad)

Water Saturation = 0.75 (high saturation assumed due to rain event)

Bbl conversion factor = 5.61 ft^3/bbl

Example Calculation: Area 1

Volume (bbls) = $[50ft \times 20ft \times (0.5in/12(in/ft)) \times 0.17 \times (1-0.75)] / (5.61ft^3/bbl) = 0.3$

Standing Oil Volume

Standing fluid recovered was estimated to be 25% oil by volume.

Volume (bbl) = Total fluid recovered x 0.25 = 5 bbl x 0.25 = 1.3