

	Maistre Services 50 Triq is-Sejjieh Swieqi SWQ 3014 Malta	Report No:- 18-715-05 bund rev 1
		Date:04-08-18
Prepared by Ing K Maistre		

Aim

To calculate storage bund area surrounding the three, one thousand five hundred litre tanks at Waste Oils Co Ltd Marsa to ensure it is compliant with environmental standards and to test and certify the bund.

Calculation

The bund wall was measured and a drawing was made of the installation. See attached

Dimensions of bund

Length 394cm

Width 176cm

Height 25cm

Capacity of bund wall is 1734 litres

Largest tank capacity is 1,500 litres

110% of largest tank is 1,650 litres

Total storage in bund is $3 \times 1500 = 4,500$ litres

25% of total storage is 1,125 litres

Bund needs to be to a volume not less than the greater of the following:

110% of the capacity of the largest tank within the bunded area

25% of the total volume of substance which could be stored within the bunded area.

Testing

The bund was filled with water and left for twenty four hours stabilisation period.

A visual inspection was carried out and no signs of cracks or leaks were observed.

After stabilisation the liquid level was recorded and then measured again after three hours
The drop in water level was calculated to be less than 2mm.

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The integrity of the bund is well constructed ensuring bund can withstand the hydrostatic pressure in the event of failure of one of the tanks.

Conclusion

This is to certify that the bund was found to satisfy the requirements for capacity, leakproofness and that the bund can withstand hydrostatic pressure in the event of failure of one or more tanks within the bund



Ing Konrad Maistre
Warrant No 431

