

If the water content of a waste heap is to be adjusted, following formula can be applied to calculate the amount of water to be raised or lowered:

1 The water content is to be raised:

$$m_{w, increase} = x \frac{WG_{desired} - WG}{100 - WG_{desired}}$$

End weight at desired water content WG:

$$m_{End} = m_{w, increase} + x$$

$m_{w, increase}$ additional amount of water to be calculated

x initial weight

WG water content determined

$WG_{desired}$ required water content

m_{End} end weight at $WG_{desired}$

2 Water content is to be lowered:

$$m_{w, loss} = x \frac{WG - WG_{desired}}{100 - WG_{desired}}$$

End weight at desired water content WG:

$$m_{End} = x - m_{w, loss}$$

$m_{w, loss}$ Loss of water

x initial weight

WG water content determined

$WG_{desired}$ required water content

m_{End} end weight at $WG_{desired}$