Sludge Disposal Cost

How-to guide: what the workbook does, how to use it and what every number means. mfgcalcs.com

Sludge Disposal Cost

Log every load of sludge or filter cake hauled away, see what it cost per wet and per dry ton against your budget, and estimate what better dewatering would save.

For: Environmental, health and safety managers, wastewater operators, plant engineers and controllers at plants that haul sludge or filter cake for disposal or recovery.

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Quick start

1. On Setup, type the plant, currency, weight unit, monthly budget and target cost per wet ton, then your sludge streams (with the solids each reaches when dewatering runs well) and disposal routes with their rates.
2. On Loads, add one row per manifest or haul ticket: date, stream, route, wet weight, measured solids, billable share and the load's fees.
3. Fix anything the Check column names.
4. On the Dashboard, pick the dates to show: cost against budget, cost per wet ton, solids by month and the cost better dewatering would avoid.

What is in the workbook

Start Here	Read this first: what the workbook does and how to use it.
Setup	Plant, currency, weight unit, budget and cost target, the sludge streams and the disposal routes with their rates.
Loads	One row per manifest or haul ticket: wet weight, solids, billable share and fees in; cost per wet and dry ton out.
Dashboard	Sludge disposal cost against budget, cost per wet and dry ton, solids by month, and the cost better dewatering would avoid.
Method	How every number is calculated, with assumptions, limits and sources.
Verify	Self-check: the workbook's formulas recomputed on fixed inputs against an independent reference.

What each number means

Quantity	How it is calculated	Units
Variable cost	Wet weight x the route's rate (Setup) x billable share.	currency
Total cost	Variable cost + the load's dewatering, testing and container fees.	currency

Quantity	How it is calculated	Units
Cost per wet ton	Total cost / wet weight.	ırrency/weight ur
Dry weight	Wet weight x measured solids.	weight unit
Cost per dry ton	Total cost / dry weight.	ırrency/weight ur
Avoidable wet weight	When solids are below the stream's target: wet weight - dry weight / target solids; otherwise 0 (an estimate).	weight unit
Avoidable cost	Avoidable wet weight x rate x billable share (an estimate; fees are not reduced).	currency
Totals and ratios	Sums over the loads in view; cost per wet ton and solids are formed from the sums (total cost / total wet weight; dry / wet).	-
Budget status	On target when the month's cost is within the budget, Near target up to 5% over, Above target beyond.	-

Assumptions, limitations, sources and the self-check (the Verify sheet, which recomputes the workbook's formulas on fixed test inputs) are in the workbook. The last page shows the Dashboard with the example data for Cobalt Ridge Finishing, a fictional business.

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Engineering estimates for planning and improvement work. Verify the results against your own process, data and standards before you rely on them.

Sludge Disposal Cost

Sludge disposal cost against budget, cost per wet and dry ton, solids by month, and the cost better dewatering would avoid.

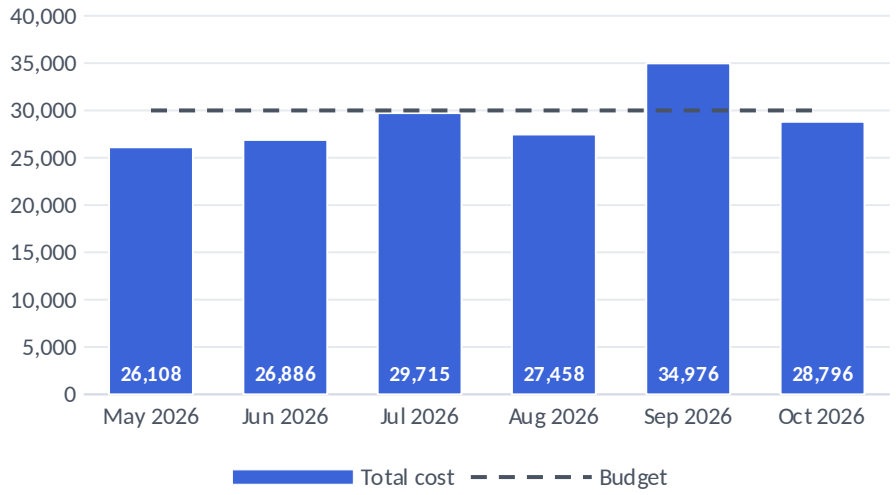
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From To

Cobalt Ridge Finishing (example): 91 loads in view. Weights in short tons as billed, money in USD.

DISPOSAL COST (USD)	COST PER WET TON (USD)	WET WEIGHT HAULED (SHORT TON)	AVOIDABLE AT TARGET SOLIDS (USD, EST.)
173,939	**239.59**	**726.0**	**10,906**
All loads in view, fees included	Target 235.00	Dry weight 222.9	Loads wetter than their stream's target
	Near target		

Disposal cost by month against budget



Wet and dry weight hauled by month

