



## DISPOSAL COSTS FOR WASTE TREATED WOOD COMPARISON OF ALTERNATIVES

29 July 2003

Description	CLASS III DISPOSAL (Non-Hazardous)	CLASS II DISPOSAL (Non-Hazardous)	CLASS I DISPOSAL (Non-RCRA Hazardous)
Features/ Purpose	Landfill with adequate protection of groundwater.	Standard for newer municipal waste landfills. Provides substantial groundwater protection.	Highest groundwater protection standard. Only 3 in CA. Double liner required. Only class to accept hazardous waste.
Disposal Tipping Fee	Landfill rates vary by region and landfills, but Class III will typically charge less than Class II in same area. Use \$30/ton.	Landfill rate of \$14.45/cy <sup>1</sup> equals \$41.42/ton for treated wood.	Hazardous waste landfill typical fee of \$50/cy equals \$142.45/ton for treated wood. (Fee may be negotiable where large volume generator may get down to \$40/cy.) <sup>2</sup>
State Disposal Tax	Any tax included in fee.	Any tax included in fee.	Fee added to disposal bill for state tax of \$16.51/ton.
Local Disposal Tax	Any tax included in fee.	Any tax included in fee.	Kern County charges disposal tax of 10% or \$14.25/ton
Generator Fee	Not applicable.	Not applicable.	Fee paid annually to Board of Equalization based on volume of waste disposed in year ranges from about \$10 to \$65/ton. <sup>3</sup> Typical charge is \$40/ton.
Collection and Transportation	Typically, fees for collection and transport to a local landfill are combined. Typical charge is \$20/ton.	Typically, fees for collection and transport to a local landfill are combined. Typical charge is \$20/ton.	Typical fee for hazardous waste by permitted hazardous waste transporter is about \$3.75 per loaded mile. Assuming typical load conditions, cost would be about \$53.42/ton.
Separation and Handling	No extra charge since treated wood can be handled with other waste.	No extra charge since treated wood can be handled with other waste.	Generating companies must separate, store, handle, and manifest as hazardous waste. Assumed cost is \$25/ton. Actual cost is probably higher.
<b>Total</b>	<b>\$50.00/ton</b>	<b>\$61.42/ton</b>	<b>\$291.63/ton</b>

Note: California currently has the most stringent requirements in the US for treated wood waste disposal and would be the only state in US to require that treated wood waste be disposed as a hazardous waste. Other states, consistent with USEPA regulations, allow used treated wood waste to be disposed as municipal waste.

<sup>1</sup> Year 2000 weighted average solid waste tipping fee from <http://www.ciwmb.ca.gov/Landfills/TipFees/TFSums.htm>

<sup>2</sup> Telephone communication with Clean Harbors, Inc., Buttonwillow facility.

<sup>3</sup> Health and Safety Code 25205.5, 25205.22 & 25174.7.