



Don't let your money go to waste!

Dumping by the Numbers

Breaking down our statistics

Mining companies dump 220+ million tonnes of tailing and waste rock into oceans, rivers and lakes each year.

Tailings and Waste Rock Dumped by Existing Mines Each Year*

Mines (linked to data source)	Location	Company	Type of Dumping	Tailings and Waste Rock (tonnes)
Grasberg	West Papua	Freeport McMoRan	River	> 76 million
Batu Hijau	Indonesia	PT Amman Mineral Nusa Tenggara	Marine	> 40 million
Kvannevang	Norway	Rana Gruber AS	Marine	> 2 million
Skaland	Norway	Skaland Graphite ASA	Marine	> 40,000
Cayeli	Turkey	First Quantum Minerals	Marine	> 3 million
Simberi	Papua New Guinea	St Barbara Limited	Marine	> 3 million
Ramu	Papua New Guinea	Highlands Pacific / MCC	Marine	> 5 million
Ok Tedi	Papua New Guinea	Ok Tedi Mining	River	> 74 million
Lihir	Papua New Guinea	Newcrest Mining	Marine	> 14 million
Porgera	Papua New Guinea	Barrick Gold	River	> 5 million
Carol	Canada	Rio Tinto IOC	Lake	> 500,000
Meadowbank	Canada	Agnico Eagle	Lake	> 2 million
Musselwhite	Canada	Goldcorp	Lake	> 1 million
Sudbury Strathcona	Canada	Glencore plc	Lake	> 1 million
Kensington	USA	Coeur Mining	Lake	> 300,000
TOTAL				>226 million

The amount of tailings dumped each year is enough to fill 55 [football] stadiums. The [volume](#) of AT&T Stadium in Dallas, TX is 104 million cubic feet (f3). Based on a density of [1.36 tons of mine tailings per cubic meter](#), 220 million tonnes of mine waste has a volume of 161,764,705 cubic meters; converted to cubic feet, that is 5,712,666,644 f3. Divide total volume of waste by total volume of the stadium: 5,712,666,644 f3 / 140,000,000 f3 = 54.9 or 55 stadiums.

Bank of America, Credit Suisse, JP Morgan and Citigroup have over \$4.4 billion invested in mine waste dumping in the ocean. This includes bonds and shareholdings, according to Bloomberg Terminal research in September 2017, with share prices calculated in December 2017 and December 2016.

Aqueous mine waste disposal is being phased out in many parts of the world according to the [International Assessment of Marine and Riverine Disposal of Mine Tailings, May, 2013](#).

** This list does not include all operations that dump mine waste into oceans, rivers, and/or lakes.*

Contact: Ellen Moore, Earthworks, emoore@earthworksaction.org