

Chronology of major tailings dam failures

(from 1960)

(last updated 13 Nov 2015)

Note: Due to limited availability of data, this compilation is in no way complete

Date	Location	Parent company	Ore type	Type of Incident	Release	Impacts
2015, Nov. 5	Germano mine, Bento Rodrigues, distrito de Mariana, Região Central, Minas Gerais, Brazil	Samarco Mineração S.A. ↳ (50% BHP Billiton ↳, 50% Vale ↳)	iron	failure of two tailings dams (apparently, the Fundão dam broke first, releasing tailings into the Santarém dam, which failed then as well)	62 million m ³	slurry wave floods town of Bento Rodrigues, destroying 158 homes, 8 persons killed and 19 reported missing (10 workers and 9 residents)
2014, Sep. 10	Herculano mine, Itabirito, Região Central, Minas Gerais, Brazil	Herculano Mineração Ltda ↳	iron	tailings dam failure	?	two workers killed and one missing
2014, Aug. 7	Buenavista del Cobre mine, Cananea, Sonora, Mexico	Southern Copper Corp. ↳ (Grupo México ↳)	copper	tailings dam failure	40,000 m ³ of copper sulphate	flow into the 420km-long Bacanuchi river waterway, a tributary of the Sonora River, directly affecting 800,000 people
2014, Aug. 4	Mount Polley mine, near Likely, British Columbia, Canada	Imperial Metals Corp. ↳	copper, gold	tailings dam failure due to foundation failure (view details)	7.3 million m ³ of tailings, 10.6 million m ³ of water, and 6.5 million m ³ of interstitial water	tailings flowing into adjacent Polley Lake and, through Hazeltine Creek, into Quesnel Lake (Mitchell Bay)

2014, Feb. 2	Dan River Steam Station, Eden, North Carolina, USA	Duke Energy 	coal ash	collapse of an old drainage pipe under a 27- acre ash waste pond	about 82,000 short tons [74,400 t] of toxic coal ash and 27 million gallons [100,000 m ³] of contaminated water	ash flowing through drainage pipe into Dan River
2013, Nov. 15-19	Zangezur Copper Molybdenum Combine  , Kajaran, Syunik province, Armenia	Cronimet Mining AG 	copper, molybdenum	damage of tailings pipeline	?	tailings flowing into Norashenik River for several days
2013, Oct. 31	Obed Mountain Coal Mine, northeast of Hinton, Alberta, Canada	Sherritt International 	coal	breach of wall in containment pond	spill of 670,000 m ³ of coal wastewater and 90,000 tonnes of muddy sediment	plume of slurry containing fine coal particles, clay and heavy metals into the Apetowun und Plate creeks and eventually the Athabasca River
2012, Dec. 17	former Gullbridge mine site, Newfoundland, Canada		copper	embankment dam failure, width 50 m		non- consumption water advisory has been issued for the Town of South Brook (view details  - Newfoundland and Labrador Department of Environment and Conservation)
2012, Nov. 4	Sotkamo, Kainuu province, Finland	Talvivaara Mining Company Plc 	nickel, (uranium by- product planned)	leak from gypsum pond through a "funnel-shaped	hundreds of thousands of cubic metres of contaminated	nickel and zinc concentrations in nearby Snow River exceeded the values that are harmful to organisms tenfold or even

				hole"	waste water	a hundredfold, uranium concentrations more than tenfold (view details)
2011, Jul. 21	Mianyang City, Songpan County, Sichuan Province, China	Xichuan Minjiang Electrolytic Manganese Plant	manganese	tailings dam damaged from landslides caused from heavy rains	?	tailings damaged residential roads and houses, forcing 272 people to leave; tailings were washed into the Fujiang River, leaving 200,000 people without drinking water supply
2010, Oct. 4	Kolontár, Hungary (Aerial View: Google Maps )	MAL Magyar Alumínium 	bauxite	tailings dam failure (view details)	700,000 cubic metres of caustic red mud	several towns flooded, 10 people killed, approx. 120 people injured, 8 square kilometres flooded
2010, Jun. 25	Huancavelica, Peru	Unidad Minera Caudalosa Chica	?	tailings dam failure	21,420 cubic metres of tailings	contamination of río Escalera and río Opamayo 110 km downstream
2009, Aug. 29	Karamken, Magadan region, Russia	Karamken Minerals Processing Plant	gold	tailings dam failure after heavy rain (see background info 2004  , press compilation 2009  , update 2012  - SRIC)	more than 1 million m ³ of water, 150,000 m ³ of tailings, and 55,000 m ³ of dams materials	eleven homes were carried away by the mudflow; at least one person was killed
2009,	Huayuan County, Xiangxi Autonomous			tailings dam failure (capacity:		The landslide set off by the tailings dam failure destroyed a

May 14	Prefecture, Hunan Province, China	?	manganese	50,000 cubic metres)	?	home, killing three and injuring four people.
2008, Dec. 22	Kingston fossil plant, Harriman, Tennessee, USA	Tennessee Valley Authority 	coal ash	retention wall failure	Release of 5.4 million cubic yards [4.1 million cubic metres] of ashy slurry	The ash slide covered 400 acres [1.6 square kilometres] as deep as 6 feet [1.83 metres]. The wave of ash and mud toppled power lines, covered Swan Pond Road and ruptured a gas line. It damaged 12 homes, and one person had to be rescued, though no one was seriously hurt.
2008, Sep. 8	Taoshi, Linfen City, Xiangfen county, Shanxi province, China	Tashan mining company	iron	Collapse of a waste-product reservoir at an illegal mine during rainfall	?	A mudslide several metres high buried a market, several homes and a three-storey building. At least 254 people are dead and 35 injured.
2007, Jan. 10	Miraí, Minas Gerais, Brazil	Mineração Rio Pomba Cataguases Ltda	bauxite	tailings dam failure after heavy rain	2 million m ³ of mud, containing water and clay ("red mud")	the mud flow left about 4000 residents of the cities of Miraí and Muriaé in the Zona da Mata homeless. Crops and pastures were destroyed and the water supply was

						compromised in cities in the states of Minas Gerais and Rio de Janeiro.
2006, Nov. 6	Nchanga, Chingola, Zambia	Konkola Copper Mines Plc (KCM) → (51% Vedanta Resources plc →)	copper	failure of tailings slurry pipeline from Nchanga tailings leaching plant to Muntimpa tailings dumps	?	Release of highly acidic tailings into Kafue river; high concentrations of copper, manganese, cobalt in river water; drinking water supply of downstream communities shut down
2006, April 30	near Miliang, Zhen'an County, Shangluo, Shaanxi Province, China	Zhen'an County Gold Mining Co. Ltd.	gold	tailings dam failure during sixth upraising of dam	?	The landslide buried about 40 rooms of nine households, leaving 17 residents missing. Five injured people were taken to hospital. More than 130 local residents have been evacuated. Toxic potassium cyanide was released into the Huashui river, contaminating it approx. 5 km downstream.
				phosphogypsum stack failure, because the company was trying to increase the capacity of the		

2005, April 14	Bangs Lake, Jackson County, Mississippi, USA	Mississippi Phosphates Corp. 	phosphate	pond at a faster rate than normal, according to Officials with the Mississippi Department of Environmental Quality (the company has blamed the spill on unusually heavy rainfall, though)	approx. 17 million gallons of acidic liquid (64,350 m3)	liquid poured into adjacent marsh lands, causing vegetation to die
2004, Nov. 30	Pinchi Lake, British Columbia, Canada	Teck Cominco Ltd. 	mercury	tailings dam (100-metres long and 12- metres high) collapses during reclamation work	6,000 to 8,000 m3 of rock, dirt and waste water	tailings spilled into 5,500 ha Pinchi Lake
2004, Sep. 5	Riverview, Florida, USA	Cargill Crop Nutrition 	phosphate	a dike at the top of a 100-foot- high gypsum stack holding 150-million gallons of polluted water broke after waves driven by Hurricane Frances bashed the dike's southwest corner	60 million gallons (227,000 m3) of acidic liquid	liquid spilled into Archie Creek that leads to Hillsborough Bay
2004, May 22	Partizansk, Primorski Krai, Russia	Dalenergo	coal ash	A ring dike, enclosing an area of roughly 1 km ² and holding roughly 20 million cubic meters of coal ash, broke. The break left a hole roughly 50 meter wide in the dam.	approximately 160,000 cubic meters of ash	The ash flowed through a drainage canal into a tributary to the Partizanskaya River which empties in to Nahodka Bay in Primorski Krai (east of Vladivostok). For details download Sept. 2004 report  (PDF)

2000, Oct. 11	Inez, Martin County, Kentucky, USA	Martin County Coal Corporation (100% A.T. Massey Coal Company, Inc. ↳, Richmond, VA (100% Fluor Corp. ↳))	coal	tailings dam failure from collapse of an underground mine beneath the slurry impoundment (view details)	250 million gallons (950,000 m ³) of coal waste slurry released into local streams	km) of rivers and streams turned an iridescent black, causing a fish kill along the Tug Fork of the Big Sandy River and some of its tributaries. Towns along the Tug were forced to turn off their drinking water intakes.
2000, Sep. 8	Aitik mine, Gällivare, Sweden	Boliden Ltd. ↳	copper	tailings dam failure from insufficient perviousness of filter drain (view details)	release of 2.5 million m ³ of liquid into an adjacent settling pond, subsequent release of 1.5 million m ³ of water (carrying some residual slurry) from the settling pond into the environment	
2000, Mar. 10	Borsa, Romania	Remin S.A.		tailings dam failure after heavy rain	22,000 t of heavy-metal contaminated tailings	contamination of the Vaser stream, tributary of the Tisza River. View Romanian Govt. report ↳ · UNEP report ↳ (527k PDF)
2000, Jan. 30	Baia Mare, Romania	Aurul S.A. (Esmeralda Exploration ↳, Australia (50%), Remin S.A. (44.8%))	gold recovery from old tailings	tailings dam crest failure after overflow caused from heavy rain and melting snow (view details)	100,000 m ³ of cyanide- contaminated liquid	contamination of the Somes/Szamos stream, tributary of the Tisza River, killing tonnes of fish and poisoning the drinking water

						of more than 2 million people in Hungary
1999, Apr. 26	Placer, Surigao del Norte, Philippines	Manila Mining Corp. (MMC)	gold	tailings spill from damaged concrete pipe	700,000 tonnes of cyanide tailings	17 homes buried, 51 hectares of riceland swamped
1998, Dec. 31	Huelva, Spain	Fertiberia ↗ , Foret	phosphate	dam failure during storm (view details)	50,000 m3 of acidic and toxic water	
1998, Apr. 25	Los Frailes, Aznalcóllar, Spain	Boliden Ltd. ↗ , Canada	zinc, lead, copper, silver	dam failure from foundation failure (view details)	4-5 million m3 of toxic water and slurry	thousands of hectares of farmland covered with slurry
1997, Dec. 7	Mulberry Phosphate, Polk County, Florida, USA	Mulberry Phosphates, Inc. ↗	phosphate	phosphogypsum stack failure	200,000 m3 of phosphogypsum process water	biota in the Alafia River eliminated
1997, Oct. 22	Pinto Valley, Arizona, USA	BHP Copper ↗	copper	tailings dam slope failure ↗	230,000 m3 of tailings and mine rock	tailings flow covers 16 hectares
1996, Nov. 12	Amatista, Nazca, Peru	?	?	liquefaction failure of upstream-type tailings dam during earthquake	more than 300,000 m3 of tailings	flow runoff of about 600 meters, spill into river, croplands contaminated
1996, Aug. 29	El Porco, Bolivia	Comsur (62%), Rio Tinto ↗ (33%)	zinc, lead, silver	dam failure	400,000 tonnes	300 km of Pilcomayo river contaminated
1996, Mar. 24	Marcopper, Marinduque Island, Philippines	Placer Dome Inc. ↗ , Canada (40%)	copper	Loss of tailings from storage pit through old drainage tunnel	1.6 million m3	Evacuation of 1200 residents, 18 km of river channel filled with tailings, US\$ 80 million damage
1995, Dec.	Golden Cross, New Zealand	Coeur d'Alène ↗ , Idaho, USA	gold	Dam movement of dam containing 3 million tonnes of tailings (continuing) (view details ↗)	Nil (so far)	Nil (so far)

1995, Sep. 2	Placer, Surigao del Norte, Philippines	Manila Mining Corp.	gold	Dam foundation failure	50,000 m3	12 people killed, coastal pollution
1995, Aug. 19	Omai, Guyana	Cambior Inc.  , Canada (65%), Golden Star Resources Inc., Colorado, USA (30%)	gold	tailings dam failure from internal dam erosion (preliminary report on technical causation)	4.2 million m3 of cyanide slurry	80 km of Essequibo River declared environmental disaster zone (view details )
1994, Nov. 19	Hopewell Mine, Hillsborough County, Florida, USA	IMC-Agrico 	phosphate	dam failure	Nearly 1.9 million m3 of water from a clay settling pond	spill into nearby wetlands and the Alafia River, Keyville flooded
1994, Oct. 2	Payne Creek Mine, Polk County, Florida, USA	IMC-Agrico 	phosphate	dam failure	6.8 million m3 of water from a clay settling pond	majority of spill contained on adjacent mining area; 500,000 m3 released into Hickey Branch, a tributary of Payne Creek
1994, Oct.	Fort Meade, Florida, USA	Cargill 	phosphate	?	76,000 m3 of water	spill into Peace River near Fort Meade
1994, June	IMC-Agrico, Florida, USA	IMC-Agrico 	phosphate	Sinkhole opens in phosphogypsum stake	?	Release of gypsum and water into groundwater
1994, Feb. 22	Harmony, Merriespruit, South Africa	Harmony Gold Mines	gold	Dam wall breach following heavy rain	600,000 m3	tailings traveled 4 km downstream, 17 people killed, extensive damage to residential township
1994, Feb.	Olympic Dam , Roxby Downs,	WMC Ltd.	copper,	leakage of tailings dam during 2 years	release of up to 5 million m3 of contaminated	?

14	South Australia		uranium	or more	water into subsoil	
1993, Oct.	Gibsonton, Florida, USA	Cargill →	phosphate	?	?	Fish killed when acidic water spilled into Archie Creek
1993	Marsa, Peru	Marsa Mining Corp.	gold	dam failure from overtopping	?	6 people killed
1992, Mar. 1	Maritsa Istok 1, near Stara Zagora, Bulgaria	?	ash/cinder	dam failure from inundation of the beach	500,000 m3	?
1992, Jan.	No.2 tailings pond, Padcal, Luzon, Philippines	Philex Mining Corp.	copper	Collapse of dam wall (foundation failure)	80 million tonnes	?
1991, Aug. 23	Sullivan mine, Kimberley, British Columbia, Canada	Cominco Ltd →	lead/zinc	dam failure (liquefaction in old tailings foundation during construction of incremental raise)	75,000 m3	the slid material was contained in an adjacent pond
1989, Aug. 25	Stancil, Perryville, Maryland, USA	?	sand and gravel	dam failure during capping of the tailings after heavy rain	38,000 m3	tailings flowside covered 5000 m2
1988, Apr. 30	Jinduicheng, Shaanxi province, China	?	molybdenum	breach of dam wall (spillway blockage caused pond level to rise too high)	700,000 m3	approx. 20 people killed
1988, Jan. 19	Tennessee Consolidated No.1, Grays Creek, TN, USA	Tennessee Consolidated Coal Co.	coal	dam wall failure from internal erosion, caused from failure of an abandoned outlet pipe	250,000 m3	?
1988	Riverview, Florida, USA	Gardinier (now Cargill →)	phosphate	?	acidic spill	Thousands of fish killed at mouth of Alafia River

1987, April 8	Montcoal No.7, Raleigh County, West Virginia, USA	Peabody Coal Co. (now Peabody Energy)	coal	dam failure after spillway pipe breach	87,000 cubic meters of water and slurry	tailings flow 80 km downstream
1986, May	Itabirito, Minas Gerais, Brazil	Itaminos Comercio de Minerios	?	dam wall burst	100,000 tonnes	tailings flow 12 km downstream
1986	Huangmeishan, China	?	iron	dam failure from seepage/slope instability	?	19 people killed
1985, July 19	Stava, Trento, Italy	Prealpi Mineraia	fluorite	dam failure, caused from insufficient safety margins and inadequate decant pipe construction (view details)	200,000 m3	tailings flow 4.2 km downstream at 90 km/h; 268 people killed, 62 buildings destroyed (view details)
1985, Mar. 3	Veta de Agua No.1, Chile	?	copper	dam wall failure, due to liquefaction during earthquake	280,000 m3	tailings flow 5 km downstream
1985, Mar. 3	Cerro Negro No.4, Chile	Cia Minera Cerro Negro	copper	dam wall failure, due to liquefaction during earthquake	500,000 m3	tailings flow 8 km downstream
1985	Olinghouse, Wadsworth, Nevada, USA	Olinghouse Mining Co.	gold	embankment collapse from saturation	25,000 m3	tailings flow 1.5 km downstream
1982, Nov. 8	Sipalay, Negros Occidental, Philippines	Marinduque Mining and Industrial Corp.	copper	dam failure, due to slippage of foundations on clayey soils	28 million tonnes	widespread inundation of agricultural land up to 1.5 m high
1981, Dec. 18	Ages, Harlan County, Kentucky, USA	Eastover Mining Co.	coal	dam failure after heavy rain	96,000 m3 coal refuse slurry	the slurry wave traveled the Left Fork of Ages Creek 1.3 km downstream, 1 person was killed, 3 homes destroyed, 30 homes damaged, fish

						kill in Clover Fork of the Cumberland River
1981, Jan. 20	Balka Chuficheva, Lebedinsky, Russia	?	iron	dam failure	3.5 million m3	tailings travel distance 1.3 km
1980, Oct. 13	Tyrone, New Mexico, USA	Phelps Dodge 	copper	dam wall breach, due to rapid increase in dam wall height, causing high internal pore pressure	2 million m3	tailings flow 8 km downstream and inundate farmland
1979, July 16	Church Rock, New Mexico, USA	United Nuclear	uranium	dam wall breach, due to differential foundation settlement	370,000 m3 of radioactive water, 1,000 tonnes of contaminated sediment	Contamination of Rio Puerco sediments up to 110 km downstream
1979 or earlier	(unidentified), British Columbia, Canada	?	?	pipng in the sand beach of the tailings dam	40,000 m3 of ponded water	considerable property damage
1978, Jan. 31	Arcturus, Zimbabwe	Corsyn Consolidated Mines	gold	slurry overflow after continuous rain over several days	30,000 tonnes	1 person killed, extensive siltation to waterway and adjoining rough pasture
1978, Jan. 14	Mochikoshi No.1, Japan	Mochikoshi Gold Mining Company	gold	dam failure, due to liquefaction during earthquake	80,000 m3	1 person killed, tailings flow 7-8 km downstream
1977, Feb. 1	Homestake, Milan, New Mexico, USA	Homestake Mining Company 	uranium	dam failure, due to rupture of plugged slurry pipeline	30,000 m3	no impacts outside the mine site
1976, Mar. 1	Zlevoto, Yugoslavia	?	lead, zinc	dam failure, due to high phreatic surface and seepage breakout on the embankment face	300,000 m3	tailings flow reached and polluted nearby river

1975, June	Silverton, Colorado, USA	?	(metal)	dam failure	116,000 tonnes	tailings flow slide polluted nearly 100 miles (160 km) of the Animas river and its tributaries; severe property damage; no injuries
1975, Apr.	Madjarevo, Bulgaria	?	lead, zinc, gold	rising of tailings above design level caused overloading of the decant tower and collectors	250,000 m3	?
1975	Mike Horse, Montana, USA	?	lead, zinc	dam failure after heavy rain	150,000 m3	?
1974, Nov. 11	Bafokeng, South Africa	?	platinum	embankment failure by concentrated seepage and piping through cracks	3 million m3	12 people killed in a mine shaft inundated by the tailings; tailings flow 45 km downstream
1974, Jun. 1	Deneen Mica, North Carolina, USA	?	mica	dam failure after heavy rain	38,000 m3	tailings released to an adjacent river
1973	(unidentified), Southwestern USA	?	copper	dam failure from increased pore pressure during construction of incremental raise	170,000 m3	tailings traveled 25 km downstream
1972, Feb. 26	Buffalo Creek, West Virginia, USA	Pittston Coal →	coal	collapse of tailings dam after heavy rain (view Citizens' Commission report →)	500,000 m3	the tailings traveled 27 km downstream, 125 people lost their lives, 500 homes were destroyed. Property and highway damage

						exceeded \$65 million. (see details →)
1971, Dec. 3	Fort Meade, Florida, USA	Cities Service Co.	phosphate	Clay pond dam failure, cause unknown	9 million m3 of clay water	tailings traveled 120 km downstream with Peace River, large fish kill
1970	Mufulira, Zambia	?	copper	liquefaction of tailings, flowing into underground workings	some 1 million tons	89 miners killed
1970	Maggie Pie, United Kingdom	?	china clay	dam failure after raising the embankment and after heavy rain	15,000 m3	tailings spilled 35 meters downstream
1969 or earlier	Bilbao, Spain	?	?	dam failure (liquefaction) after heavy rain	115,000 m3	major downstream damage and loss of life
1968	Hokkaido, Japan	?	?	dam failure (liquefaction) during earthquake	90,000 m3	tailings traveled 150 meters downstream
1967, Mar.	Fort Meade, Florida, USA	Mobil Chemical	phosphate	dam failure, no details available	250,000 m3 of phosphatic clay slimes, 1.8 million m3 of water	spill reaches Peace River, fish kill reported
1967	(unidentified), United Kingdom	?	coal	dam failure during regrading operations	?	tailings flow covered an area of 4 hectares
1966	(unidentified), East Texas, USA	?	gypsum	dam failure	76,000 - 130,000 m3 of gypsum	flow slide traveled 300 meters; no fatalities
1966	Derbyshire, United Kingdom	?	coal	dam failure from foundation failure	30,000 m3	tailings traveled 100 meters downstream
						the tailings traveled 600

1966, Oct. 21	Aberfan, Wales, United Kingdom	Merthyr Vale Colliery ↗	coal	dam failure (liquefaction) from heavy rain	162,000 m ³	meters, 144 people were killed (view details ↗ , watch video ↗)
1966, May 1	Mir mine, Sgorigrad, Bulgaria	?	lead, zinc, copper, silver, (uranium?)	dam failure from rising pond level after heavy rains and/or failure of diversion channel	450,000 m ³	the tailings wave traveled 8 km to the city of Vratza and destroyed half of Sgorigrad village 1 km downstream, killing 488 people. (View details ↗ · historic photographs ↗)
1965, Mar. 28	Bellavista, Chile	?	copper	dam failure during earthquake	70,000 m ³	tailings traveled 800 meters downstream
1965, Mar. 28	Cerro Negro No.3, Chile	?	copper	dam failure during earthquake	85,000 m ³	tailings traveled 5 km downstream
1965, Mar. 28	El Cobre New Dam, Chile	?	copper	dam failure (liquefaction) during earthquake	350,000 m ³	tailings traveled 12 km downstream, destroyed the town of El Cobre and killed more than 200 people
1965, Mar. 28	El Cobre Old Dam, Chile	?	copper	dam failure (liquefaction) during earthquake	1.9 million m ³	
1965, Mar. 28	La Patagua New Dam, Chile	?	copper	dam failure (liquefaction) during earthquake	35,000 m ³	tailings traveled 5 km downstream
1965, Mar. 28	Los Maquis, Chile	?	copper	dam failure (liquefaction) during earthquake	21,000 m ³	tailings traveled 5 km downstream
1965	Tymawr, United	?	coal	dam failure from	?	tailings traveled 700 meters downstream,

	Kingdom			overtopping		causing considerable damage
1962	(unidentified), Peru	?	?	dam failure (liquefaction) during earthquake and after heavy rainfall	?	?
1961	Tymawr, United Kingdom	?	coal	dam failure, no details available	?	tailings traveled 800 meters downstream

tonnes = metric tonnes

Sources:

- **Tailings Dam Incidents**, U.S. Committee on Large Dams - [USCOLD](#), Denver, Colorado, ISBN 1-884575-03-X, 1994, 82 pages [*compilation and analysis of 185 tailings dam incidents*]
- **Environmental and Safety Incidents concerning Tailings Dams at Mines: Results of a Survey for the years 1980-1996** by Mining Journal Research Services; a report prepared for [United Nations Environment Programme, Industry and Environment](#) ↗. Paris, 1996, 129 pages [*compilation of 37 tailings dam incidents*]
- **Tailings Dams - Risk of Dangerous Occurrences, Lessons learnt from practical experiences**, Bulletin 121, Published by United Nations Environmental Programme (UNEP) Division of Technology, Industry and Economics (DTIE) and [International Commission on Large Dams](#) ↗ (ICOLD), Paris 2001, 144 p. [*compilation of 221 tailings dam incidents mainly from the above two publications, and examples of effective remedial measures*]

and many others.

> See also: [Chronology of uranium tailings dam failures](#)

A compilation comprising many more tailings dam failures can be found here:

> Download: [The Risk, Public Liability, & Economics Of Tailings Storage Facility Failures](#) ↗, by Lindsay Newland Bowker and David M. Chambers, July 21, 2015 (748kB PDF)

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