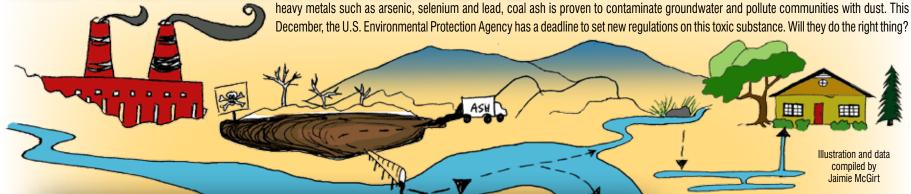
THE TRUTH ABOUT COAL ASH

Coal ash — the byproduct of burning coal for electricity — is currently regulated under the same rules as regular household garbage. Filled with



U.S. coal-fired power plants generate

MILLION TONS

of coal ash waste per year.

Nearly **50%** of southeastern coal ash ponds are concentrated in low-income communities

Only states in the U.S.

- Louisiana and Pennsylvania
- require groundwater monitoring in new or existing coal ash ponds.



IN THE SOUTHEASTERN STATES...

Kentucky

Third-largest state in the nation for coal ash storage; 49% of dams exceed a 25-foot depth or store 500 acre-feet of coal ash; no requirement for frequent inspection; only 15 have been EPA-inspected to date.

West Virginia

83% of dams pose a high or significant hazard in the case of dam failure: one of only three states in the country that requires composite liners for new coal ash ponds; requires frequent inspection by dam operator.

Virginia

73% of dams pose a high or significant hazard in the case of dam failure; despite having an emergency action plan, pond liners and groundwater monitoring are not required; 4 of 11 sites show evidence of contaminated groundwater.

Lead, arsenic, boron, mercury and excess selenium exposure may cause brain swelling and neurological damage, including developmental defects, impaired vision, paralysis and even death

> Lead exposure and arsenic ingestion may cauco cardiovascular issues. especially in children

> > Lead exposure and excess boron ingestion may cause damage to the male reproductive system

Arsenic absorption through the skin may cause skin cancer

Boron, arsenic, and frequent chromium inhalation may cause nose and throat irritation, asthma, wheezing and lung cancer

Arsenic ingestion may cause urinary tract cancers. Lead exposure and excess boron ingestion may have damaging effects on the kidnevs.

Chromium ingestion may cause stomach and intestinal ulcers, anemia, and stomach cancer. Excess boron ingestion may cause liver and intestinal damage

INFOGRAPHIC SOURCES: SoutheastCoalAsh.org accessed Sept. 2014; EPA.gov accessed Sept. 2014; "State of Failure," Earth Justice and Appalachian Center for Mountain Advocates, 2011; "Coal Ash: The Toxic Threat to our Health and Environment," Physicians for Social Responsibility and EarthJustice, 2010; Federal Register/ Vol. 75, No. 118. MAP courtesy of http://www.gelib.com/terrain-maps.htm and Google Earth Library with data from NASA and Scripps Institution of Oceanography/University of California San Diego.

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Tennessee

88% of dams pose a high or significant hazard in the case of dam failure; no requirement for professional engineers to design or supervise dams; no dams inspected in the last 5 years.

South Carolina

6 of 22 dams pose a significant hazard in the case of dam failure; 50% are large capacity or have heights over 25 feet; pond liners and groundwater monitoring are not required.

North Carolina

69% of dams pose a high or significant hazard in the case of dam failure; average height of dams is six stories; all 14 coal ash sites show evidence of contaminated groundwater.

Pursuing Federal Regulations -- a timeline

October 1976

FPA creates the **Resource Conservation** and Recovery Act (RCRA) to identify and regulate hazardous wastes

August 1993

EPA determines that coal ash should be regulated as non-hazardous waste

May 2000

EPA declares that regulation is not warranted whenever coal ash is beneficially used for agriculture or construction

2004

The EPA hosts four public meetings to address concerns about coal ash disposal due to the lack of liners, water monitoring, and consistent state regulation.

Dec. 23, 2008

A coal ash pond at a TVA plant in Harriman, Tenn., fails, causing one of the largest environmental disasters in U.S. history with one billion gallons spilled.

June 21, 2010

EPA considers proposal to classify coal ash as hazardous waste

Feb. 2, 2013

A main ash pond at Duke Energy's Dan River Steam Station in Eden, N.C., fails, spilling more than 39,000 tons of coal ash waste into the Dan River

Dec. 19, 2014

EPA required to decide whether or not to regulate coal ash as hazardous waste, which would lead to stronger regulation and enforcement