



This brief document is intended to provide the reader with the basic situational knowledge to properly engage in discourse, be resilient to propaganda, and perform canvassing on the topic of XAI.

The three main risks (and talking points) of XAI are its **pollution to the air**, **damage to the aquifer**, and **no community benefit**.

The Air Pollution

XAI announced June 5th 2024 that Elon Musk had already begun the construction of the plant without any public notice. Since then, xAI has become the largest polluter in the city. To meet power requirements (enough to power 200,000 homes), Elon installed **15 methane gas turbines**. The permits to operate these turbines were never given, so they were being operated **illegally**. In addition to running them illegally, they are now running **35 turbines**, without even receiving the permits for the first 15.

These turbines emit **Nitrogen Oxides (NO_x)**, which can lead to:

- Smog
- Acid Rain
- Ground level ozone

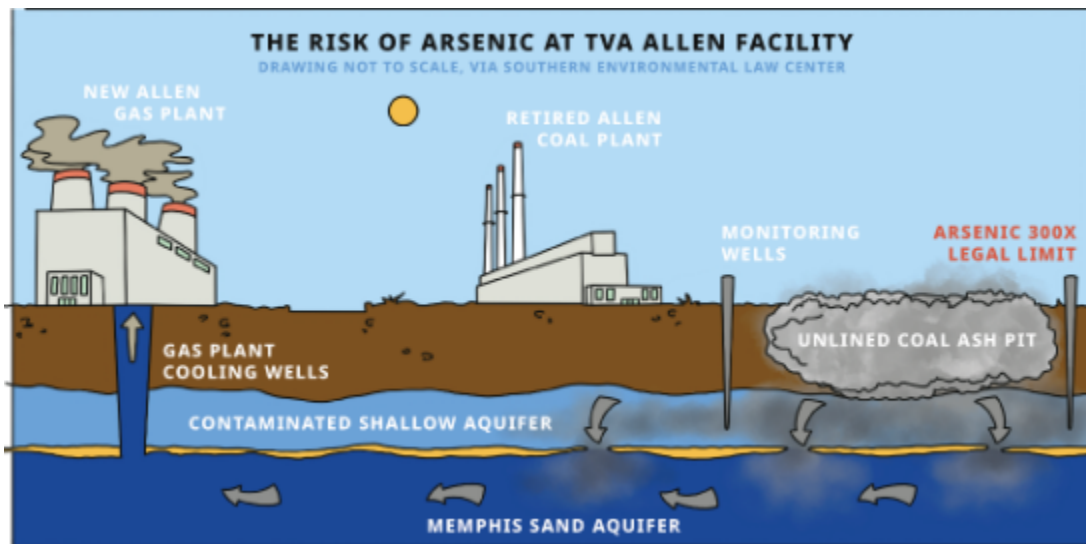
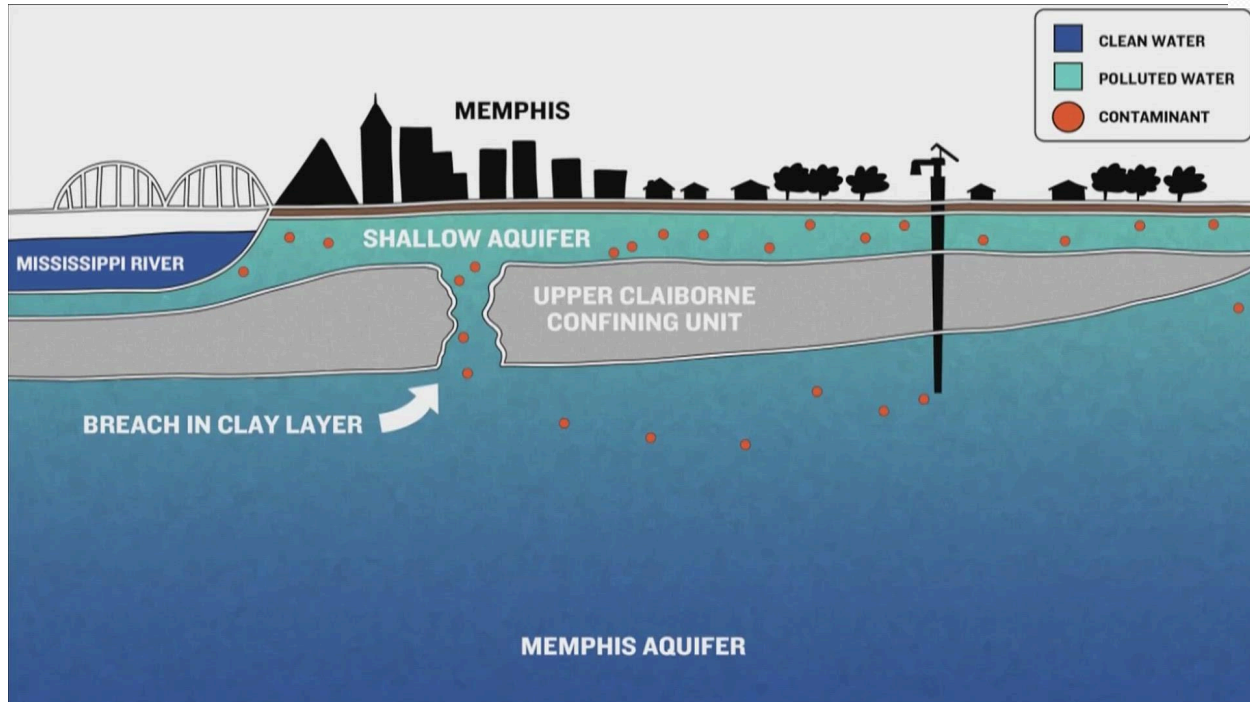
They also emit **Formaldehyde (CH₂O)**, which can lead to:

- eye, nose, and throat irritation
- Known carcinogen (gives cancer)
- Causes asthma and respiratory illness

This is like smoking cigarettes, just by breathing in air. Into a community that's already dealing with high rates of asthma and other health issues. The area is predominantly Black and low-income, and people are calling this out as environmental racism. Primarily for its proximity to Boxtown, the first city of emancipated slaves in Memphis.

Damage to the Aquifer

The aquifer is a large pocket of water that rests under a layer of clay, this clay naturally filters rainwater over time. However, scientists have found breaches in this clay layer. This allows top soil contaminants from other major polluters to seep through these breaches in that clay. Like TVA, who dumps cancerous coal ash into ditches.



The immense amount of pressure being pulled by the AI facility can create a vacuum effect, and the force can pull these contaminants down into the drinking water. XAI consumes 1.3 million gallons per day of municipal drinking water.

One other concern is that data centers may consume water faster than it can recharge.



No community benefit

Despite numerous propaganda, little to no jobs will be occupied by Memphians. It's a supercomputer, for the most part it governs itself. There will also be very small tax benefits to Memphis, due to the immense tax cuts regulated under the current administration.