

Estimated Lifetime Risks

Greater Risk

Lifetime risk of developing cancer from drinking water containing 70.0 $\mu\text{g/L}$ of hexavalent chromium is 1:1,000 ⁽²⁾

Lifetime risk of developing cancer from drinking water containing 7.0 $\mu\text{g/L}$ of hexavalent chromium is 1:10,000 ⁽²⁾

Lifetime risk of developing cancer from drinking water containing 0.7 $\mu\text{g/L}$ of hexavalent chromium is 1:100,000 ⁽²⁾

Lifetime risk of developing cancer from drinking water containing 0.07 $\mu\text{g/L}$ of hexavalent chromium is 1:1,000,000 ⁽²⁾ (Note: this is the level at which HREs were sent)



Lesser Risk

Lifetime odds of death from being struck by lightning is 1:136,011 ⁽¹⁾
Lifetime odds of death from a dog bite is 1:103,798 ⁽¹⁾
Lifetime odds of death from a cataclysmic storm is 1:83,922 ⁽¹⁾

References:

- (1) National Safety Council (<http://portal.ncdenr.org/web/guest/coal-ash-news-blog/-/blogs/25783772>).
- (2) Calculated using the United States Environmental Protection Agency (USEPA) Integrated Risk Information System (IRIS) oral cancer slope factor of 0.50 $(\text{mg/kg/d})^{-1}$; USEPA Toxicological Review Draft 2010.