From: John Carroll
To: Forkeutis, Kristen (ECY)
Cc: Unruh, David (ECY)
Subject: TECT Aerospace Everett
Date: Wednesday, May 3, 2023 7:36:45 AM

Greetings Kristen and David,

I propose using plants capable of absorbing toxic materials and converting them through mineralization into less toxic substances. This process is called phytoremediation. This process is well understood and well documented. As a consulting agronomist, I've used this process many times in both Asia and the Americas. Phytoremediation has very competitive advantages over other methods of removing toxins in the soil. Currently, I'm working with an elite cultivar of grass that sequesters large quantities of toxins contained in the soil profile, during a single cropping cycle. The superior advantage of using a phytoremediation crop is that the toxics are rendered less dangerous through mineralization, there are little or no toxic particulates dispersed in the atmosphere and the costs of detoxification are greatly reduced. This process would be performed in conjunction with the establishment of a native planting barrier.

I have proprietary genetics capable of excelling in this process. A comprehensive program of fighter remediation then following up with a diversified native planting should mitigate soil contaminants and provide a cost effective solution. Feel free to contact me if this process is of interest. I live locally and am not trying to monetize this procedure. I have included links of studies with show efficacy regarding this method.

Kind regards from a concerned scientist,

John Carroll

Research Agronomist

https://www.sciencedirect.com/science/article/pii/S0013935120303200

https://arundobioenergy.com/arundo-donax-for-phytoremediation-of-metal-contamined-soils/

https://www.frontiersin.org/articles/10.3389/fenvs.2021.652367/full

https://www.hindawi.com/journals/bmri/2013/324830/