

Concepts for Updates to Chapter 250

1. List of mutagens
 - a. Currently listed in (§250.301(b))
 - i. Comparison to Regional Screening Level (RSL) table mutagen list, RSL lists more mutagens
 - ii. Will review toxicity information (not based on RSL table) to determine
 - b. May change the Medium-specific Concentrations (MSCs) for the compounds determined to be a mutagen
2. Particulate emission factor (PEF) (§250.307)
 - a. Current calculation using outdated draft EPA guidance (1994)
 - b. Considering update using updated equations from finalized EPA guidance (1996)
3. Surface water quality criteria waiver (§250.406(c))
 - a. Unclear language
 - b. Consider update for clarification
4. Table 5A (columns from left to right)
 - a. Organic carbon partitioning coefficient (K_{OC})
 - i. Consider update to EPA's Estimation Program Interface (EPI) Suite, K_{OC} molecular connectivity index (MCI) Method
 - ii. Change some K_{OC} values
 1. May cause some changes to nonuse aquifer multiplier values (volatile organics only)
 2. Will impact the soil to groundwater generic values for some organic compounds
 - b. Volatile
 - i. Determined based on the definition of a volatile in 250.1
 - ii. Includes factors including:
 1. Boiling point (BP)
 2. Henry's Law constant
 3. Molecular weight
 - iii. Will not change any MSC values, not likely to add or remove any compound defined as a volatile.
 - c. Aqueous solubility
 - i. Sources listed in §250.304(g)
 - ii. Selection hierarchy complicated and cumbersome

- iii. Only value on the tables currently using listed sources
 - iv. Consider update to EPI Suite values
 - v. Changes to some values for solubility
 - vi. Unlikely to change MSCs
 - d. Boiling point
 - i. Propose updating source to EPI Suite
 - ii. Minor changes
- 5. Table 5B
 - a. Partitioning Coefficient (K_d)
 - i. Used in modeling
 - ii. Consider update to EPI Suite
 - iii. May have some minor changes
 - iv. Unlikely to change the MSC values
- 6. Table 8, list of compounds of potential ecological concern
 - a. Currently a list of about 72 compounds
 - b. After reviewing other eco screening criteria, should include almost all compounds in MSC tables
 - c. Consider remove Table 8 and all references to it
- 7. Remove subsurface inhalation MSCs for non-volatile substances
 - a. Currently use outdated calculations and cause confusion
 - b. Update calculations for soils to not include inhalation risk for non-volatile subsurface inhalation
- 8. Melting point (MP)
 - a. Values not currently published in Table 5A
 - b. Currently used to determine if a compound is an organic liquid
 - c. Add definition to §250.1:
 - i. Regulated substances which are organics and liquids at standard temperature and pressure (STP)
 - ii. $MP < 30^\circ \text{C}$
 - a. Revise §250.305(b) to use “organic liquid”