

Note on Key Updates to HEER Technical Guidance Manual Section 4

Section 4: DECISION UNIT and MULTI INCREMENT SAMPLING (preliminary updates)

- Characterization of Decision Units (Section 4.0)
- Sampling Theory and Variability of Contaminant Concentrations in Soil, including (Section 4.1)
 - Nature, causes and implications of contaminant concentration variability (aka “distributional heterogeneity”) in soil
 - Implications for sample collection and data interpretation
 - Use of DU-MIS methods to improve data representativeness
- Use Multi Increment Samples to Characterize DUs, including (Section 4.2):
 - Minimum number of increments vs contaminant release scenario
 - Target MI sample mass
 - Spacing of MI sample increments
 - Collection and evaluation of replicate sample data
 - Laboratory processing and subsampling
 - DU-MIS approaches for VOCs
 - Collection of MI samples for subsurface
 - Collection of MI samples for stockpiles
- Use and interpretation of discrete sample data (Section 4.3)
- Common investigation mistakes and problems (Section 4.4)