



Risk-Based Closure – RBC

Health Protective and Cost Effective Site Closure Options

- Risk Integrated System of Closure (RISC) is a process for investigating and determining corrective action at contaminated sites using human health protective clean-up levels
- The health protective Default Closure Level (DCL) approach is applicable at all sites and at all times
- Non-Default Closures are site-specific and allow for flexibility
- Non-Default/site specific clean-up levels are as health protective as DCLs; they take site-specific differences into consideration

RBC combines

- An in-depth understanding of science
- An in-depth understanding of the regulatory policy that governs how to close sites
- Investigations that consider closure requirements from the very beginning

Indiana RISC allows Site Specific (Non-default) Closures

- RBC is an approach to site characterization and closure that considers the characteristics of the site and how to close it from the time investigation begins
- Conventional investigations are inefficient, focusing only on finding the contamination before considering how to remediate generally requiring numerous “re-investigations”
- Results in less re-investigation and a more cost-effective clean-up in a shorter time-period

RBC is very similar to the EPA Triad using

- Systematic Planning
 - Building on early and continual Conceptual Site Model development
 - Addressing continual decision support and a clear weight of evidence for actions and conclusions
- Dynamic Work Strategies
 - A tailored client communication plan
 - Utilizes a Multi-Disciplinary Technical review team at each of four major stages of investigation and remediation. It is comprised of a Remedial Engineer, Hydrogeologist, Toxicologist, Environmental Attorney and Geochemist that address:
 - Investigation needs for adequate characterization
 - Closure options at each major stage of the remedial process
 - A defined pathway to closure
- Real-Time Measurement Technologies wherever possible and cost effective

Closure requires remediation to “closure standards” in soil and groundwater

- RBC looks at how to derive site-specific closure standards for surface soil, subsurface soil and groundwater, which result in higher closure levels that save costs
- Groundwater closures often require an in-depth understanding of plume behavior. SESCO has developed a proprietary process EMiLE™ that allows a cost-effective, science-based rapid closure
- Flow charts are attached that detail the process of developing site-specific closure levels for surface soil, subsurface soil and groundwater

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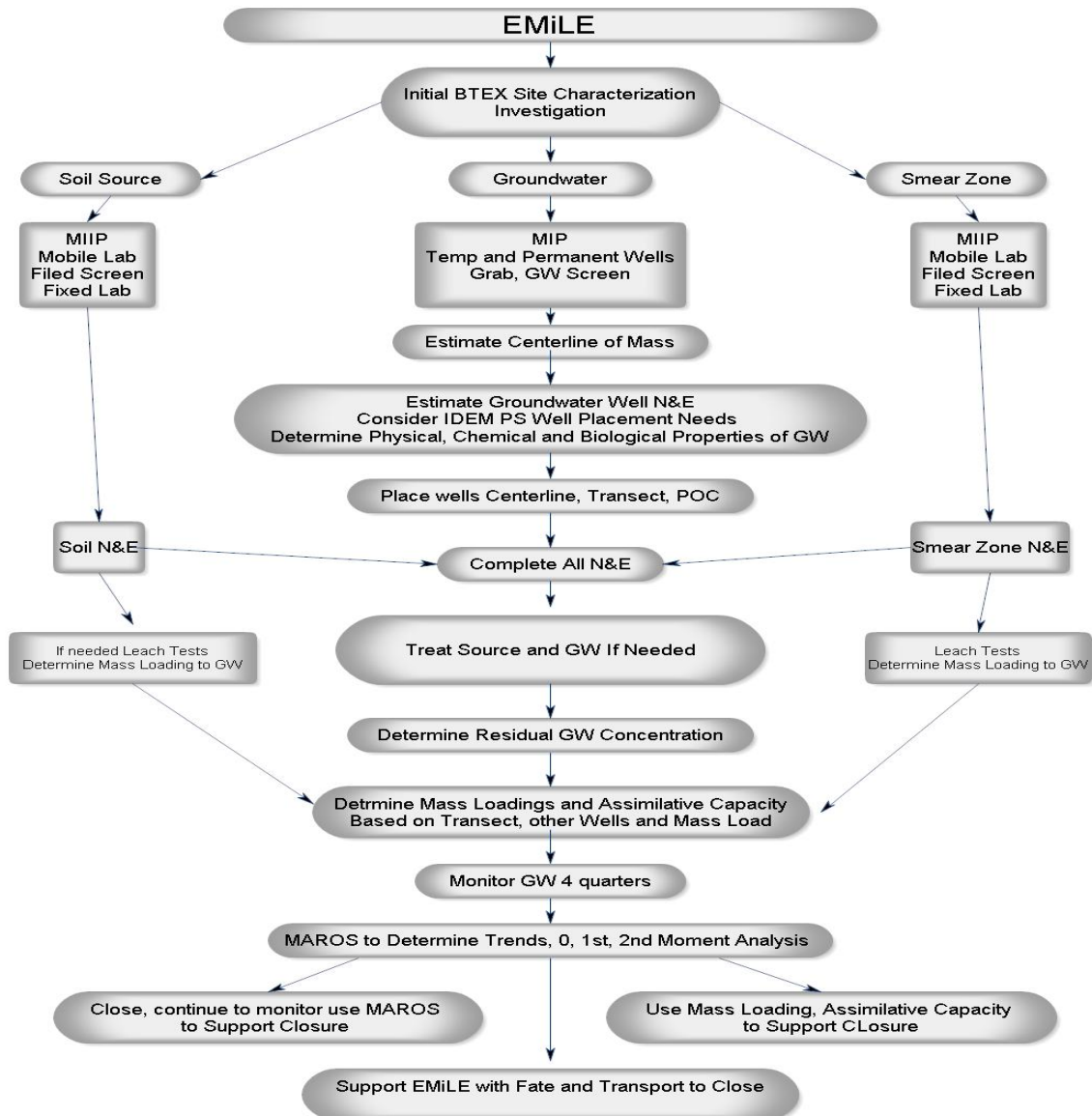


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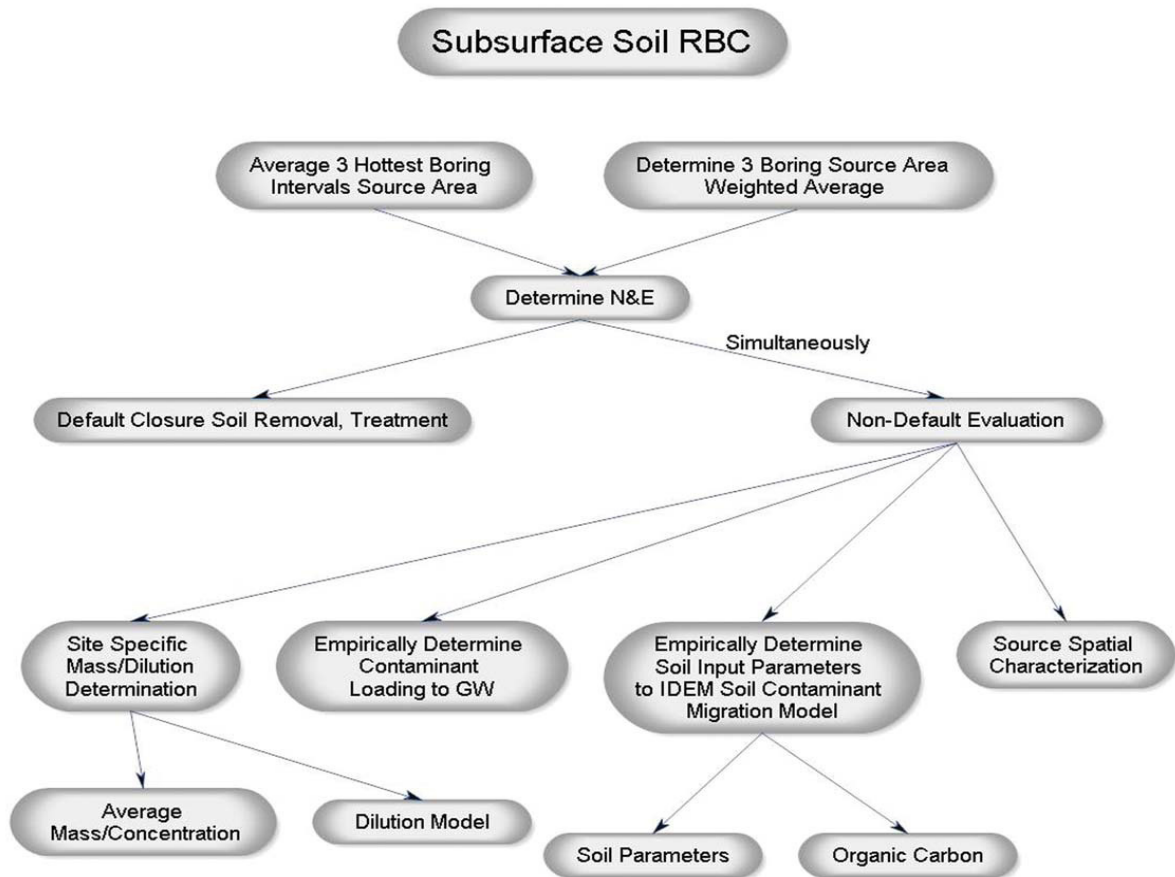
Groundwater Characterization and Non-default Closure Options Process





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Subsurface Soil Characterization and Non-default Closure Options Process





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Surface Soil Characterization and Non-default Closure Options Process

