

PFAS Regulatory Landscape

State and Federal Standards:

- Soil – Sediment – Surface Water – Groundwater:
 - No promulgated regulatory standard
- Drinking Water:
 - No promulgated regulatory standard (e.g. Maximum Contaminant Level (MCL))
 - USEPA Health Advisory: Lifetime Health Advisory (LHA) of 70 parts per trillion (ppt) for PFOA and PFOS in drinking water (non-enforceable guidance value) <https://www.epa.gov/ground-water-and-drinking-water/drinking-water-health-advisories-pfoa-and-pfos>

Alabama Regulatory Framework for Site Investigation & Remediation

- Alabama Environmental Investigation and Remediation Guidance
<http://adem.alabama.gov/programs/land/landforms/AEIRGInvestigation.pdf>
 - Provides framework/process for conducting a site investigation and the design/ implementation of a final remedy
- Alabama Risk-Based Corrective Action Guidance Manual
<http://adem.alabama.gov/programs/land/landforms/arbcamanual.pdf>
 - Provides framework/process to determine site-specific risk-based target levels (RBTLs) protective of current and future human health and the environment that can be used as remedial clean-up objectives

Components of the Alabama Environmental Investigation and Remediation Guidance

<http://adem.alabama.gov/programs/land/landforms/AEIRGInvestigation.pdf>

Preliminary Investigation (PI)	Comprehensive Investigation (CI)	Risk Assessment	Remediation Plan
<p><i>Purpose – identify conditions indicative of releases or threatened releases</i></p> <p>Components of a PI include, but are not limited to:</p> <ul style="list-style-type: none"> • Submittal of PI Work Plan • Evaluate surrounding land use • Water use survey of nearby residential properties • Site preparations (i.e., tree clearing) • Installation of groundwater monitoring wells • Surface water, sediment, soil and groundwater sampling • Development of Conceptual Site Model • Comparison of concentrations to applicable & appropriate screening levels • Identification of compounds of potential concern • Submittal of PI Report summarizing findings to ADEM for review/comment 	<p><i>Purpose – determine full horizontal and vertical extent of impacts</i></p> <p>Components of a CI may include, but are not limited to:</p> <ul style="list-style-type: none"> • Submittal of CI Work Plan • Potential installation of additional monitoring wells • Potential additional surface water, sediment, soil and groundwater sampling • Update of Conceptual Site Model • Collection of site-specific data to aid in risk assessment • Submittal of CI Report summarizing findings to ADEM for review/comment 	<p><i>Purpose – develop site-specific risk-based target levels (RBTLs) that are protective of human health and the environment</i></p> <p>Components of an RA may include, but are not limited to:</p> <ul style="list-style-type: none"> • Human-health risk assessment based on specific chemicals • Human-health risk assessment based on site-specific parameters • Ecological risk assessment to protect animal populations 	<p><i>Purpose – develop a plan to mitigate sources of contaminants to achieve RBTLs</i></p> <p>Components of a Remediation Plan include, but are not limited to:</p> <ul style="list-style-type: none"> • Evaluation of possible remedial alternatives • Description of the cleanup objectives (i.e., RBTLs) • Discussion of the alternative(s) selected to remediate contaminants detected above the RBTLs • Design plans of the remedial alternative for soils, sediments, and groundwater, as needed to achieve the RBTLs • Submittal of a Remediation Plan to ADEM for review/comment