

RISK-BASED SITE INVESTIGATION AND REMEDIATION REQUIREMENTS FOR DEURS

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PURPOSE: To implement quality control and consistency of information to be evaluated and included in DEUR closures of sites for which a risk evaluation or risk assessment has been conducted for determining site-specific alternative cleanup standards.

PROCEDURES

For each site which utilizes a risk assessment or risk evaluation, the following elements should be site-specifically evaluated to determine whether applicable for inclusion in the DEUR. Documentation of these elements, at a minimum, should occur in Exhibit 5 of the DEUR.

Sites which have conducted a risk assessment for generic residential uses, and which have substituted site-specific values for default assumptions for those parameters not subject to change by human behavior or chemical/physical changes, do not contain risk-based elements necessary for a DEUR.

1. Control Area: For sites in which the control area defined in the DEUR is not the same as the area defined by the property boundaries in the deed, AND in which the control area defined by the risk evaluation/assessment differs from the entire delineated contaminant plume, the DEUR must reflect the proper risk-based area of concern.
2. Contaminants: For sites at which contaminants are present at levels exceeding background or predetermined Soil Remediation Levels, and either require an institutional or engineering control to meet residential cleanup levels or which exceed a risk-based residential cleanup level, the DEUR must reflect the correct chemicals of concern.
3. Institutional Control Elements: For sites which rely upon an institutional control to reduce or eliminate exposures to contaminants, either as part of a risk assessment assumption or as part of a remedial action, the DEUR must identify the type and implementation of the appropriate institutional control.
4. Engineering Control Elements: For sites which rely upon an engineering control to (i) reduce toxicity of one or more contaminants, reduce or prevent migration of one or more contaminants, (ii) reduce concentrations of one or more contaminants, or (iii) reduce or eliminate routes of exposures to receptors, any of which are utilized in determining a site-specific risk-based cleanup level, the DEUR must describe the engineering control. Specifically, the DEUR must identify the type of control to be implemented, the mechanism by which it achieves (i) through (iii), the requirements for operation and maintenance, and the resulting risk level.