

McLouth Steel Superfund CAG

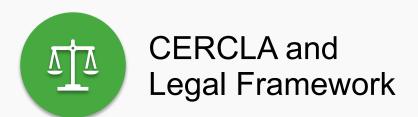
Introduction to EPA's Superfund Program

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McLouth CAG May 2020

Discussion







CERCLA





CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act) was passed in 1980

- Providing authority for direct federal response to hazards posed by abandoned or uncontrolled hazardous waste sites.
- Also known as Superfund

CERCLA





Goals of Superfund

- Protecting human health and the environment by cleaning up sites contaminated with hazardous substances
- Making responsible parties pay for work performed at Superfund sites
- Involving communities in the Superfund process
- Supporting the return of sites to productive use

EPA and Legal Framework



Policy
& Guidance
EPA HQ
EPA Regions

Regulations

NCP (40 CFR Part 300)

Executive Orders

E.O. 12580 E.O. 13016

> Statutes CERCLA SARA

CERCLA, as amended by:

- Superfund Amendments and Reauthorization Act (SARA), 1986
- Asset Conservation, Lender Liability, and Deposit Insurance Protection Act (Lender Liability Act), 1996
- Superfund Recycling Equity Act of 1999 (SREA or Recycling Amendments)
- Small Business Liability Relief and Brownfields Revitalization Act (Brownfields Amendments), 2002

EPA and CERCLA





How Superfund Works

- The Superfund cleanup process is complex. It involves the steps taken to:
 - assess sites,
 - establish and implement appropriate cleanup plans.
- The blueprint for these activities is the National Oil and Hazardous Substances Pollution Contingency Plan (NCP), a regulation applicable to all federal agencies involved in responding to hazardous substance releases.

EPA and **CERCLA**





Limitations of Superfund

- Limited to cleanup of hazardous substances and pollutants, such as
 - Polychlorinated biphenyls (PCBs)
 - Lead
 - Asbestos
 - Other toxic compounds
- Limited to cleanup of sites with unacceptable risks to human health and the environment
- Remedy section and cleanup standards applied to sites considering "reasonably anticipated future development"

Risk Happens When...



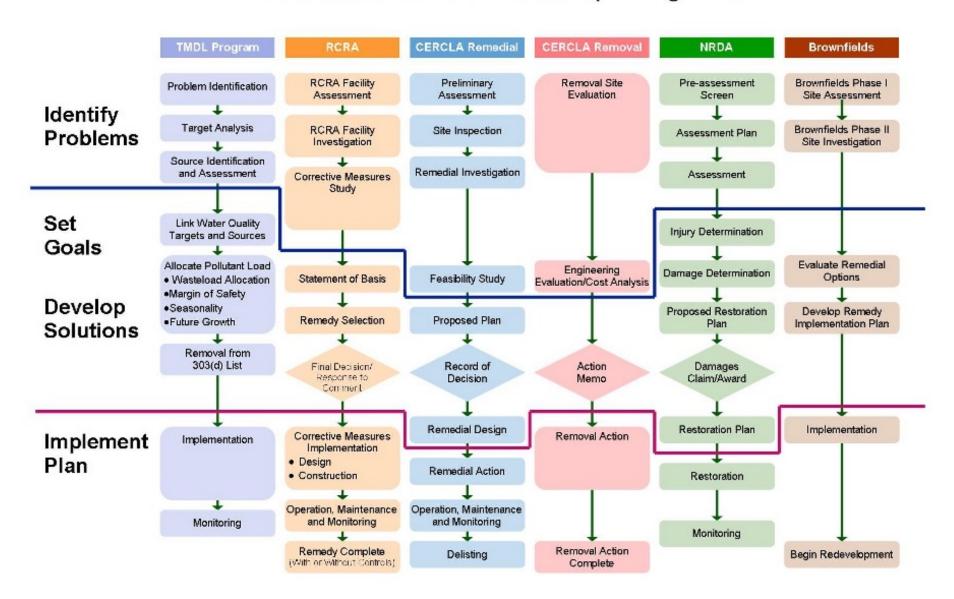




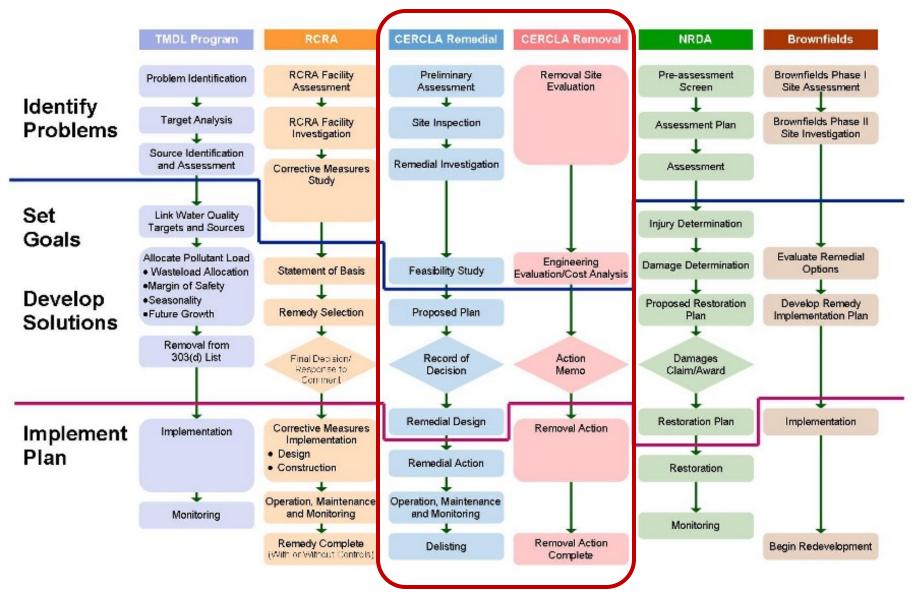


- 1. Contaminants exist
- 2. Concentrations are high enough
- 3. There is an exposure pathway
- 4. There are receptors (people, animals, a sensitive ecosystem)

EPA Assessment and Cleanup Programs

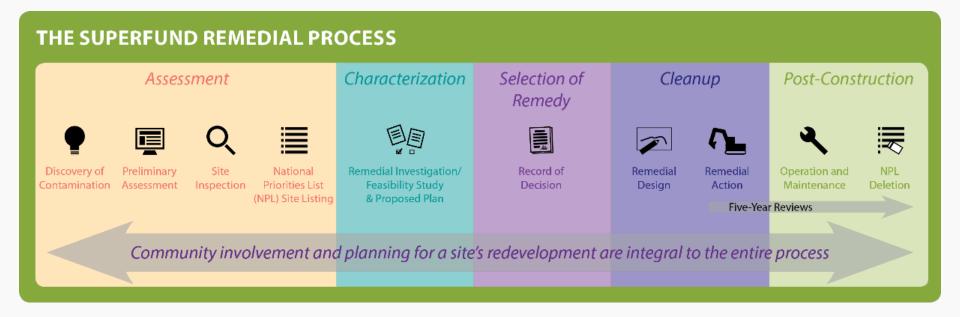


EPA Assessment and Cleanup Programs



Superfund Remedial Process





Removal actions can occur at *any time* and *simultaneously*.

Reuse can occur at *any time* if human health and environment are <u>protected</u>.

Remedial Process: A Closer Look



THE SUPERFUND REMEDIAL PROCESS

Assessment



Discovery of

Contamination



Preliminary Assessment Q

Inspection

National Priorities List (NPL) Site Listing Characterization



Remedial Investigation/ Feasibility Study & Proposed Plan Selection of Remedy



Record of Decision

Cleanup



Remedial Design



Remedial O

Post-Construction



Operation and Maintenance NPL Deletion

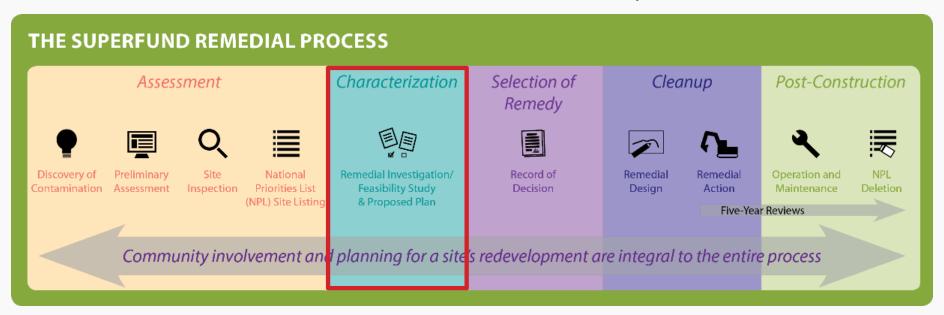
Five-Year Reviews

Community involvement and planning for a site's redevelopment are integral to the entire process

Characterization



How much contamination is there? How do we clean it up?



Remedial Investigation (RI)



- The goal of the remedial investigation is to determine the extent of contamination and potential risks
 - It includes sampling of soil, surface water, groundwater and waste from locations across the site and near site boundaries
 - It assesses human health and ecological risks posed by the site



Remedial Investigation/Feasibility Study & Proposed Plan

What is Risk Assessment?



- Science-based site-specific estimate of the human health and/or ecological risk due to exposure to site contaminants
- Estimates current and possible future risks, if no cleanup actions taken
- Helps EPA select the best cleanup strategies to manage risks to acceptable levels

Feasibility Study (FS)



- The analysis of potential treatment methods or "cleanup alternatives" is called a feasibility study
- The pros and cons of each cleanup method are explored in relation to nine required evaluation criteria
- Based on results of the feasibility study, EPA will develop a Proposed Plan for site cleanup



Remedial Investigation/Feasibility Study & Proposed Plan



General Questions

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