Overview of Natural Resources Damage Assessment and Restoration

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<u>Topics</u>

- Introduction to NRDAR Concepts
- Relationship to Cleanup
- Scope of Liability
- NRDAR Process
- Cooperative Assessments
- Summary

Things happen...



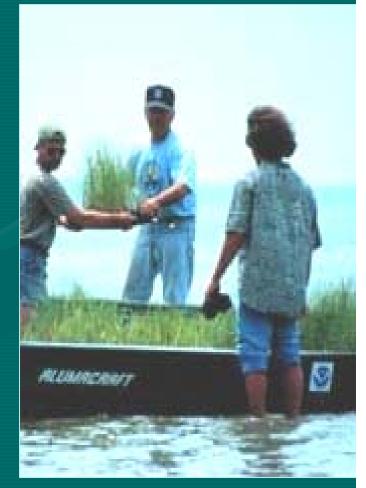




Purpose and Concepts

<u>NRDAR</u> What is it?

- A process to determine the appropriate amount and type of restoration needed
- Goal is to "make the public" whole following releases of hazardous substances
 - "Trustees" represent the public
- NRDAR success is measured by the amount of appropriate restoration achieved





- Trustees must use NRD recoveries to restore, rehabilitate, replace, and acquire the equivalent of injured natural resources and services
 - Governments act as trustees "on behalf of the public" -- trustees must use the funds to replenish the common store of natural resources for public use and enjoyment
- Natural resource damages are entirely compensatory; no punitive element

<u>NRDAR</u> What it is not!

- NRD is not an environmental tort claim (common law)
- Congress intended to go beyond common law remedies because it was dissatisfied with common law

What is Injury?

- An observable or measurable adverse change in a natural resource or impairment of a natural resource service.
- Includes injuries resulting from the actual discharge of a hazardous substance or oil, a substantial threat of a discharge, and/or related response actions.







What Are Services?

- Services are the beneficial outcomes that result from natural resources & ecosystem functions
 - Healthy habitat for fish and wildlife
 - Provision of clean water
 - Harvesting animals or plants
 - Recreation and cultural practices
 - Scenic views

What Are Damages?

Strictly speaking, money for

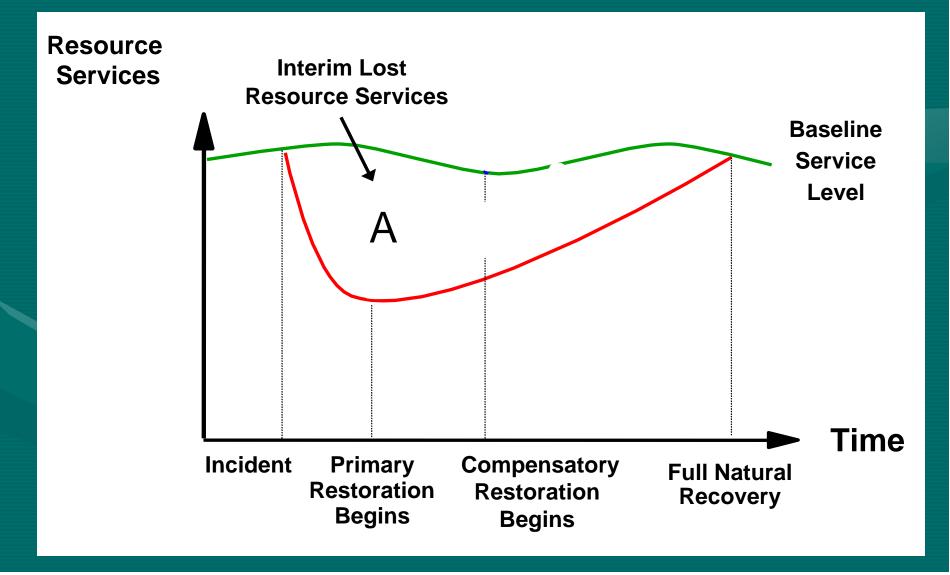
Restoration based on injuries
Costs of assessment

Regulations focus on implementing restoration projects rather than collecting dollars

What is Restoration?

- Primary restoration
 - Return injured resources to what they would have been were it not for the spill (baseline)
- Compensatory Restoration
 - To address losses through time
 - Beyond response
- Assessment cost recovery
 - Reimburse trustees for time and resources used to develop a claim

Service Losses with Remediation & Restoration



Laws



- Clean Water Act (CWA)
- Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA or Superfund)
- Oil Pollution Act of 1990 (OPA)
- National Marine Sanctuaries Act (NMSA)
- Park System Resource Protection Act (16 USC 19 JJ)
- Applicable State Laws

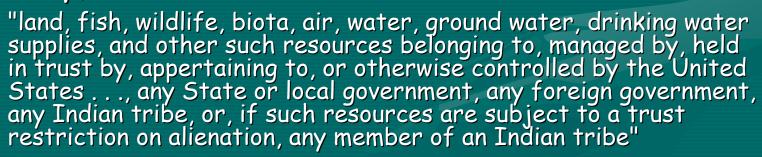
Regulations

- National Contingency Plan (40 CFR 300)
 - Requires response agencies to notify trustees and coordinate with them
 - Defines trustees: federal, state, tribal, foreign
 - Lists general responsibilities of trustees
- Regulations for NRD under CERCLA
 - Department of Interior (DOI) responsible
 - 43 CFR 11
 - Regulations for NRD under OPA
 - Department of Commerce (DOC-NOAA) responsible
 - 15 CFR Part 990

Natural Resources

 Trustees have jurisdiction over public natural resources

Namely,



Resources need not be owned by the government to be "natural resources" (e.g. migratory birds)

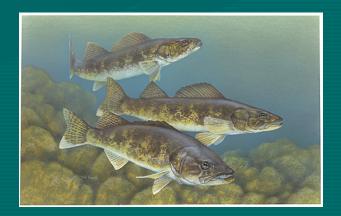
Only require a substantial degree of government regulation, management or other form of control over property (e.g., An aquifer is a trust resource whose injury gives the State a cause of action)

Trusteeships may overlap; no double recovery



- State Governors
- Tribes
 - The tribal chairman or other representative may act as trustee for a tribe [NCP 300.610]
- Secretaries of Federal Departments
 - e.g. Commerce, Interior
- Foreign Governments (under OPA)





Trustees...

- Coordinate w/response agencies (e.g., EPA) by integrating trustee concerns and science into the cleanup process
- Assess injuries
- Evaluate and scale restoration alternatives for
 - Returning resources to baseline
 - Compensating for interim lost resources and services
- Oversee and/or implement restoration plan



<u>NRD</u> Private Claims



- Private NRD claims are covered under
 OPA but not CERCLA
- Private claims include:
 - Damages to real or personal property
 - Net loss of taxes, royalties, rents, fees, and other lost revenues by federal or state governments
 - Loss of profits or loss of earning capacity due to injury to natural resources
 - Net cost of public services

Relationship to Cleanup

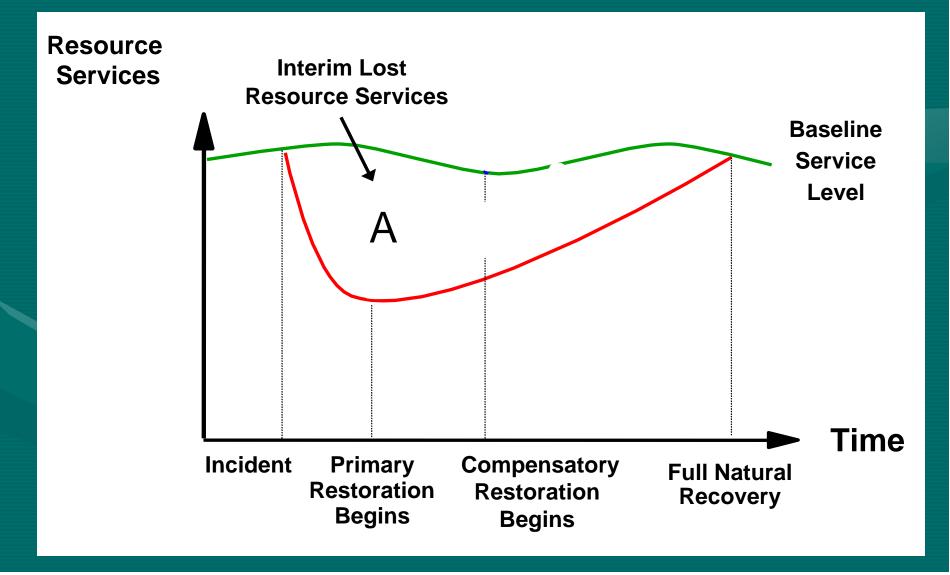
<u>Relationship to Cleanup Actions</u> Damages Are Residual to Cleanup

- EPA/USCG, state response agencies, or PRPs may clean up a site partially or completely; cleanup takes time
- NRDA seeks to recover for "residual" loss
- NRDA should take into account:
 - The extent and timing of cleanup action proposed or completed
 - more complete remedy = less future injury = less restoration required
 - the sooner the remedy, less restoration required
 - Likely effects of the cleanup action itself on natural resources

<u>Relationship to Cleanup Actions</u> Damages Are Residual to Cleanup

- Damages are residual to cleanup because a cleanup action may address injured natural resources (restoration to baseline)
- Differing purposes of the cleanup and natural resource restoration:
 - The primary charge for cleanup is to select and implement an action that protects human health and the environment from further harm
 - NRD actions are to make the public whole: past, present and future
 - Cleanups will not necessarily eliminate all of the harm resulting from past releases and harm may continue after cleanup construction work is completed (restoration for compensation)

Service Losses with Remediation & Restoration



<u>Relationship to Cleanup Actions</u> Damages-only sites

- Trustees may also bring NRD claims with respect to sites where no cleanup action would otherwise occur
 - Examples
 - <u>Montrose Chemical Co.</u>, DDT and PCB contamination in marine sediments off the California coast near Los Angeles
 - <u>City of Seattle</u>, contamination in Elliott Bay
 - Saginaw River and Bay, PCBs in sediments

<u>Relationship to Cleanup Actions</u> Cleanup Agencies/Trustees Must Work Together

- Cleanup agencies must notify trustees, coordinate with NRDA investigations, and invite trustee participation in negotiations with PRPs
- Cleanup agencies and the trustees should coordinate early
 - Trustees' information needs and restoration objectives can be considered in cleanup investigations and decision making
 - Trustees can acquire sufficient information to play a meaningful role in subsequent actions and negotiations
 - Timely coordination benefits cleanup agencies: avoids potential for disruption of settlement negotiations
 - Timely coordination benefits PRPs: allows cost-effective investigations and development of alternatives that coordinate cleanup and restoration



<u>Relationship to Cleanup Actions</u> Cleanup Agencies/Trustees Must Work Together

- Coordination of cleanup and restoration avoids "undoing" a cleanup to achieve a restoration goal
 - e.g., use of aggressive vegetation to prevent erosion, followed by need to eliminate that vegetation
 - e.g, use of armoring to contain waste along riverbank, followed by a need to restore/replace natural riverbank functions and stream hydrology





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<u>Relationship to Cleanup and Other Actions</u> <u>Benefiting the Local Environment</u>

Cleanup/Response

Protection of health & environment PRP, Superfund, OSLTF pays

NRDA Restoration

Making public whole PRP or OSLTF pays

Community Efforts

Quality of Life Taxpayers, grants, private parties pay; e.g. Great Lakes Legacy Act, AOC RAP groups, foundations

Scope of Liability

<u>Scope of Liability for NRD</u> Elements of Liability

 Trustees must demonstrate that there has been "injury" to natural resources "resulting from" a "release/discharge".

Liability for natural resource damages, like liability for response costs, is joint and several unless a defendant can meet its burden of proving divisibility of the harm

<u>Scope of Liability for NRD</u> Meaning of Injury

- Not defined per se in the law. CERCLA only refers to an "injury to, destruction of, or loss of natural resources".
- Injury is defined in 43 CFR 11 as "a measurable adverse change, either long- or short-term, in the chemical or physical quality or the viability of a natural resource"
 - CERCLA regulations allow demonstration of injury either by:
 - Empirical evidence of an adverse change in a particular case (e.g., lower hatching rates, increased incidence of tumors), or
 - Reliance on a prior regulatory determination (e.g. WQC) to identify a threshold above which injury may be expected
 - OPA has a comparable definition of injury, requiring proof of injury based on such standards of scientific reliability and validity

<u>Scope of Liability for NRD</u> Causation

- The "resulting from" language imposes a burden on the government to establish a causal link between a release/discharge and natural resource injury -- the precise nature of the burden remains unsettled
- Past cases suggested various approaches, such as:
 - Determining a pathway
 - Predictive models
 - Demonstration of contributing factor
 - Koch's postulates (epidemiology)

<u>Scope of Liability for NRD</u> Statutory Limitations and Exceptions <u>"Cap" under CERCLA</u>

- Recovery of NRD for each release or incident involving release is limited (to \$50M) unless the release resulted from willful misconduct/negligence or from a violation of federal safety/operating standards
 - This may be a significant limitation in cases where the release was a one-time spill or release

However, it should not affect most cases where hazardous substances were spilled over a long period (e.g., where typically occurrences are considered as multiple releases, separate incidents or incidents attributed to separate PRPs)

<u>Scope of Liability for NRD</u> Statutory Limitations and Exceptions

Losses Identified in a Permit under CERCLA/OPA

There can be no recovery for natural resource losses that were specifically authorized by permit or identified in an EIS/EA

<u>Scope of Liability for NRD</u> Statutory Limitations and Exceptions

The "pre-enactment damages" exception under CERCLA

- No recovery for NRD that occurred wholly before December 11, 1980
 - Trustees are entitled to recover all damages that occur after December 11, 1980, regardless of whether they result from pre-enactment or post-enactment releases
 - Where NRD is readily divisible, trustees cannot recover for damages that occurred before December 11, 1980
 - Where damages are not divisible and the damages or the releases continue post-enactment, trustees can recover for the non-divisible damages in their entirety (e.g., damages for aesthetic injury may be an example of damages that may be indivisible)
 - Damages measured by restoration costs are probably not restricted by this exception.

NRDAR Process

The Big Picture

Oil or Hazardous Substance Release Response
 Restoration





Preassessment Injury Assessment **→**

Damages Claim - Restoration Planning

Settlement or Litigation

Restoration Implementation

<u>NRD Process</u> Regulations Describe Process

- Regulations implementing CERCLA (at 43 CFR 11) and OPA (15 CFR 990) provide rules that guide the NRDA process.
- The rules provide a framework for decision-making, transparent to public and PRPs.
- The rules allow for flexibility in some areas.

Use of the NRD rules provides trustees with a "rebuttable presumption": the results of the assessment will be presumed to be correct.

Following the rules is optional.



 OPA:
 Preassessment
 Restoration Planning
 Restoration Implementation •CERCLA: -Preassessment -Assessment Plan -Assessment -Post Assessment

<u>NRDAR Process</u> Preassessment Phase

• OPA

- -Determination of Jurisdiction
- -Determination to Conduct Restoration Planning
- -Data Collection
- -Notice of Intent

- CERCLA
 - -Notification & Detection
 - -Emergency Restorations
 - -Data Collection
 - -Preassessment Screen

NRDAR Process Next Steps

OPA
 Restoration
 Planning

CERCLA
 Assessment Plan
 &
 Assessment



NRDAR Process **OPA** Restoration Planning Phase Injury assessment -Injury determination -Injury quantification -Analysis of natural recovery **Restoration Selection** -Primary restoration -Compensatory restoration -Scale restoration actions -Evaluation of alternatives **Develop Restoration Plan**

<u>NRDAR Process</u> CERCLA Assessment Plan Phase

- Coordination with all Trustees
- Notice of Intent
- Identify type of procedure to assess injury
- Determine how to confirm exposure
 Determine how to develop preliminary estimate of damages
- Public review of plan

<u>NRD Process</u> CERCLA Assessment Phase

- Injury Determination
- Injury Quantification
- Damage Determination
 - Restoration and Compensation Determination Plan

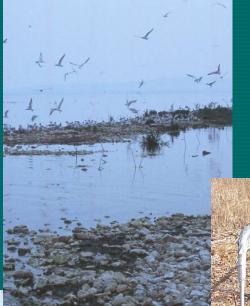
*Restoration alternatives



NRDAR Process Biological Injury











<u>NRDAR Process</u> OPA Restoration Implementation

- Close Administrative Record
- Present a Demand for Damages
 - Responsible party carries out restoration with Trustee oversight
 - Responsible party pays Trustees to complete restoration
- Restoration Implementation

<u>NRDAR Process</u> <u>CERCLA Post-Assessment Phase</u> Report of Assessment and Demand for

- Damages
- Recover Damages
 - **Restoration** Plan

- How it usually actually happens:
- Negotiation
- •Remedial and Restoration Design Coordination
- •Global Settlement
- Restoration Implementation

Cooperative NRDAR

<u>Coordinating with RPs / PRPs</u> Emphasis on Restoration and Settlement

- Focus on restoration
- Encourage expedited assessments to:
 - Achieve restoration more quickly
 - Reduce interim losses
 - Reduce costs





<u>Cooperative Assessments</u> Benefits

Lower costs with focus on restoration Sound restoration plan developed Consensus approach to resolving liability Litigation avoided <u>Cooperative Assessments</u> What is Needed for Success

- Coordination with response agencies
- Data sharing
- Framework for cooperative planning
- Framework for objective decision-making
 - Public participation
- Funding

NRDAR Summary

- Process to make the public whole through restoration following releases of hazardous substances and/or oil
- Based on CERCLA, OPA, other laws and regulations
- Advantages to coordinating with response, community
- Liability is joint and several
- Liability is limited in certain ways:
 - \$50M cap, permitted releases, pre-CERCLA damages

Processes are slightly different under CERCLA and OPA, but general steps are:

- preassessment, injury assessment, restoration planning, damages claim, settlement/negotiation, restoration
- Cooperative assessments focus on restoration, employ expedited assessments, seek to reach consensus and settlement