

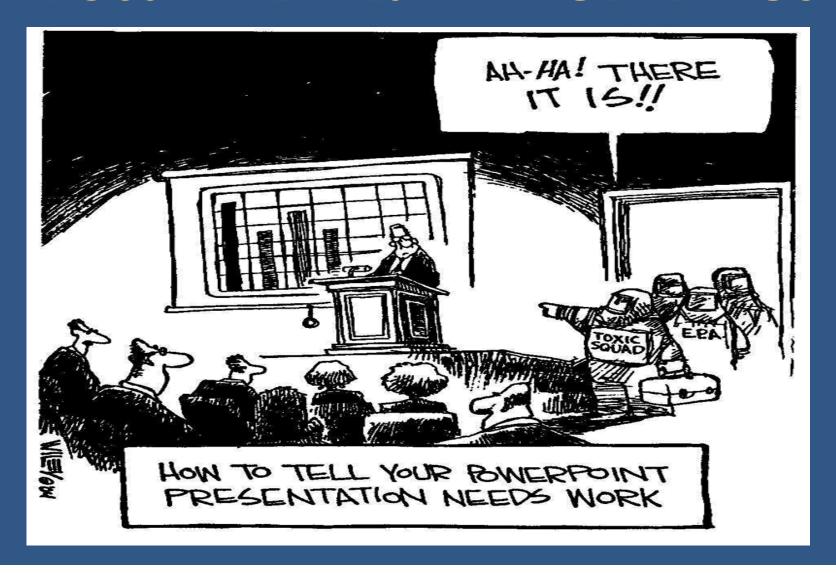
HAZARDOUS MATERIALS
MANAGEMENT GUIDANCE FOR
MAINEDOT STAFF

<u>MaineDOT Environmental Office</u>

Dwight Doughty, Manager,

Groundwater and Hazardous Materials







Overview

Hazardous materials - a broad category of hazardous wastes, hazardous substances, and toxic chemicals that can negatively impact human health or the environment.

- Presence or suspected presence of hazardous materials can pose a myriad of legal, regulatory, financial, and technical problems to a project.
- Adding DOT (and sponsors) may be exposed to substantial liability if it purchases a parcel of land contaminated with hazardous materials or if existing ROW is impacted (by the owner, third-party illegal disposal practices, or activities of tenants).
- Under federal and state statutes, claims can be made against MaineDOT for cleanup costs and personal or property damages.

MaineDOT conducts investigations for hazardous materials on projects so that these issues can be considered in design and the National Environmental Policy Act (NEPA) process.



Overview

- I. MaineDOT Project Investigations for Contamination
- II. Beneficial Use
- III. Bridge Painting
- IV. Documentation



MaineDOT Project Investigations for Contamination

Why?

Environmental and Liability Protections

Identify Potential Risks

Better Project Budgeting

OSHA Right to Know

Health and Safety

Federal Mandates





MaineDOT Project Investigations for Contamination

Protections & Defense (Due Diligence)

Comprehensive Environmental Response, Compensation and Liability Act (CERCLA)

Superfund Amendment and Reauthorization Act (SARA)

Resource Conservation and Recovery Act (RCRA)

Maine Solid & Hazardous Waste Rules

Maine Voluntary Response Action Program (Brownfields)





MaineDOT Project Investigations for Contamination

When?

Hazardous material concerns may be encountered on any transportation project. Higher risk projects for encountering hazardous materials include but are not limited to:

Structure demolition operations or structure modifications

Excavations operations in urbanized / commercial areas

Bridge/underpass construction, vertical alignment changes, trenching, or storm sewers

Drainage and underground utility installations or adjustments

Purchase of new ROW or easement

Divesture of Property





MaineDOT Project Investigations for Contamination

How \$

Review Site History & Existing Files/Interviews

Develop Site Characterization Plan

Perform Explorations

- Borings
- Test Pits
- Geoprobes
- Field Analysis
- Laboratory analysis
- Ground Penetrating Radar
- Pipe Locators





MaineDOT Project Investigations for Contamination

What to look for....

Gasoline Stations





Auto Body Shops



MaineDOT Project Investigations for Contamination

What to look for....

Dry Cleaners



MaineDOT Project Investigations for Contamination

What to look for....

Landfills/Waste Areas





Tanks

MaineDOT Project Investigations for Contamination

What Do We Do When We Find Contamination?

Write contamination assessment report

Look for responsible parties or other cost recovery avenues

Work with Project Manager and Designer to reduce impact of contaminants on the project



MaineDOT Project Investigations for Contamination

What Do We Do When We Find Contamination?

Negotiate cleanup standard with MDEP

Memorandum of Understanding

Write Special Provisions
202 Removal of Structures
203 Special Excavation

Monitor Construction

Compliance with Special Provision





Beneficial Use

What is Beneficial Use?

Reuse of Secondary Materials (Waste)

Tire Chips

Dredge Material

Regulated by MDEP Chapter 418

Defined as Solid Waste

Typically Requires Permit

Permit By Rule

Reduce Procedures

Full Permit





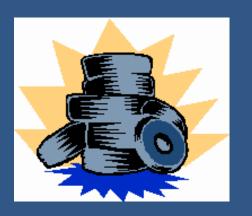
Beneficial Use

Tire Chips

Permit By Rule

Light Weight Fill / Drainage

Size & Construction Specifications





Beneficial Use

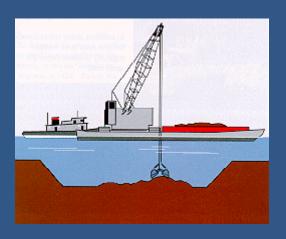
Dredge Material

Positioned Below High-Water Mark

Disturb Greater Than 500 yds³

Exemptions

Class A, AA or SA Water Less Than 15 % Fines





Beneficial Use

Dredge Material: Use / Management Options

Testing

Physical

Chemical

Dioxin or Other Anthropogenic Constituents

Permitting

Beneficial Use: on & off-site

Disposal

Marine (large quantities)

Upland Landfill Disposal (limited space)

Write Special Provision





Bridge Painting

Sample Soil and Sediment Below Bridges

Sampling Preformed Prior to Painting or Rehabilitation

X-Ray Fluorescence (XRF)

Establishes Baseline – Litigation Support

Hazardous & Special Waste Management

Lead-based paint and associated waste streams

Federal and State requirements

MaineDOT & Contractor responsible

Storage, paperwork and transport







Documentation

Assessment reports and special provisions are noted in ProjEx. Dates and notes are placed in ProjEx - PM Permits and Hazardous Materials Assessment Details.

Final baseline documentation is placed in CPD e-file.





Groundwater & Hazardous Materials Division

Customer Focused

Strive To Ensure Prompt Service

Responsive To Requests / Emergencies



