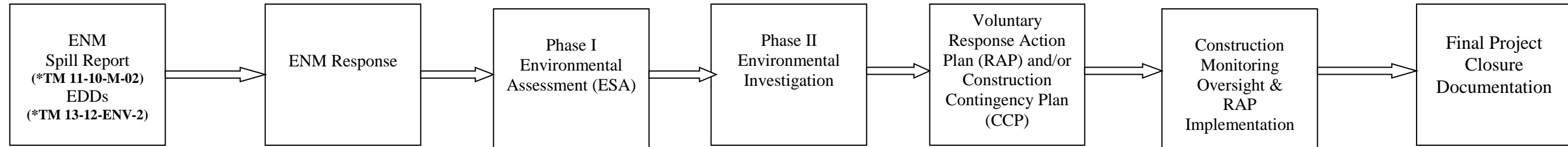


Typical Contaminated Materials Process

MnDOT manages contaminated soil, groundwater and other media to:
 Enable compliance with all applicable federal, state, and local regulations;
 Minimize long term liability associated with contaminated property acquisitions (long term financial impacts);
 Minimize long term liability associated and contaminated material disposal or reuse;
 Promote good environmental stewardship



Highway Project Development Process(**CONSTRUCTION**) projects

- Scoping
- Design
- Construction
 - MnDOT and
 - **LOCAL/STATE AID** Projects

Facility & Maintenance projects

- Scoping
- Design
- Construction Stand-alone facility

Property Transactions

- Acquisition
- Conveyance
- Leases

Spills on MnDOT highway system
PERMITS

The Environmental Investigation Unit (EIU) reviews the **Minnesota Pollution Control Agency (MPCA)** and **Minnesota Department of Agriculture (MDA)** databases to check for known contaminated sites in the project area. The databases searched include: leaking underground storage tank facilities, landfills, salvage yards, voluntary investigation and cleanup (VIC) sites, spill sites, Superfund sites and dump sites

Work with **DESIGN** to avoid or minimize impact to project

Work with **ROW** to reduce long term liability resulting from property acquisition

Work with **LAND MANAGEMENT** on next steps for acquisition

EIU sends requisitions to **DISTRICTs** for approval and to secure funding to retain a consultant for a Phase I and Phase II

Complete a Phase I ESA prior to purchase of the property (good for 6 months or 1 year, must be updated after that)

Complete a Phase I to obtain historical chemical usage on properties associated with a construction project or maintenance facility; and to evaluate risk of contamination from sites in the vicinity of the project or facility

Assist **DISTRICTs** with Environmental Documents (EA-EAWs, EIS, CATEX)

May include sampling or investigation of:

- Soil
- Groundwater
- Soil Gas
- Indoor air
- Asbestos
- Sewers
- Tank or drum contents
- Concrete
- Building waste

Data can be used by **DISTRICT SAFETY** to Prepare a Site Safety Plan.

Work with **DESIGN and CONSTRUCTION** to develop a clean-up plan and prepare contamination-related Special Provisions

EIU sends requisition to **DISTRICT** for approval and to secure funding to retain a consultant to monitor and document management of contaminated materials during construction, and to prepare a documentation report

Initiate communication with **REGULATORY AGENCIES** on any required notifications, permits and secure liability release documentation, if necessary

EIU submits the report to the **MPCA** to obtain letters of assurance to reduce MnDOT's liability, approvals, and/or site closure

Preparation of reports and negotiation with the **MPCA** on response actions and cleanup goals.

Hire environmental consultants to handle contaminated materials on **CONSTRUCTION** projects and complete all required reporting

Response actions can include:

- Soil treatment or onsite/offsite disposal
- Demolition (asbestos and lead paint abatement and building waste removal)
- Groundwater treatment
- Dewatering
- Environmental Controls (ie.
 - Capping with soil or bituminous
 - Vapor barrier, passive venting system
- Institutional controls (fence, restrictive covenant)

EIU submits the construction and/or RAP documentation report to the **MPCA** to obtain liability assurances, approvals, and/or site closure, as appropriate

Notes:

* (TM) = Tech Memo