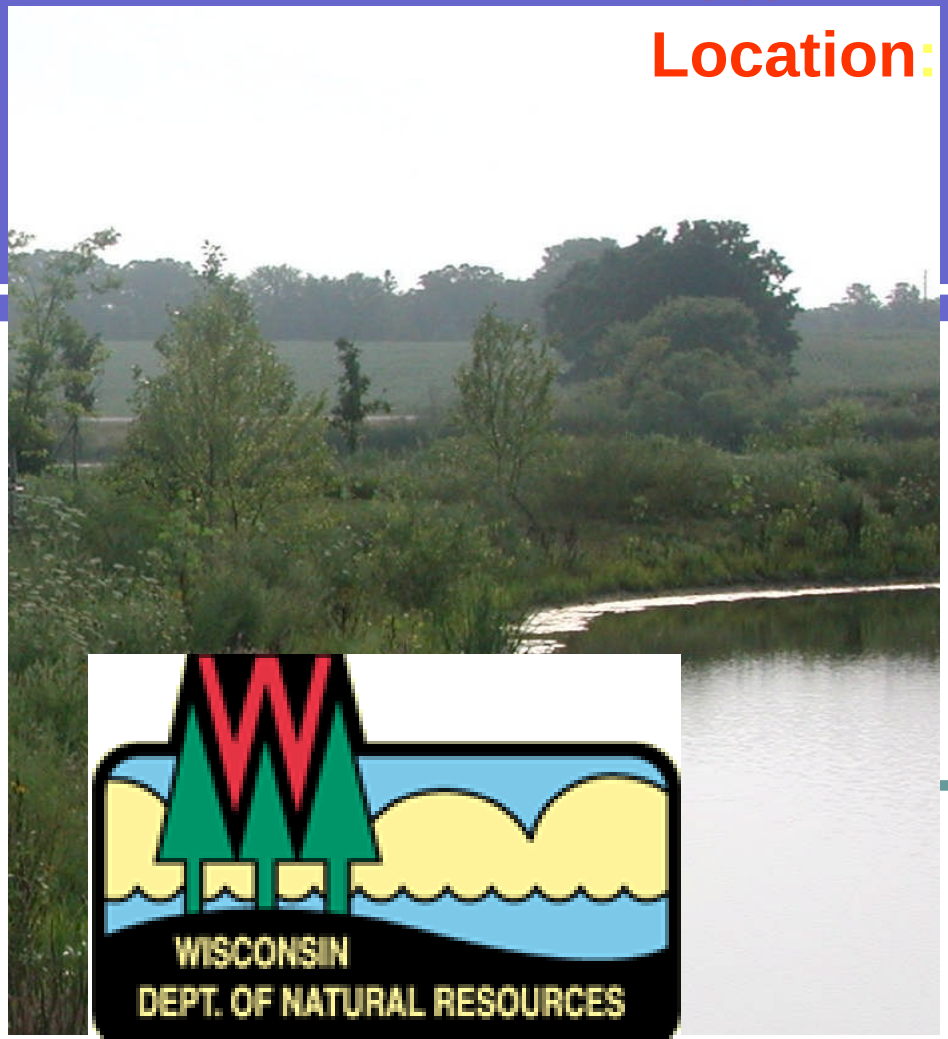
INTRODUCTION to NR 528: MANAGEMENT of SEDIMENT FROM STORMWATER MANAGEMENT STRUCTURES

Venue: DNR Outreach

Date: February 16, 2010

Location: Nat. Resources Building (GEF II), Room G09.
9:30 – noon(?)



Accumulated sediment - jurisdiction

- Sediment removed during maintenance of CWA structures **requires sound management,**
- Considered a **solid waste** & regulated by the WDNR's Bureau of Waste & Materials Management.

Technical Advisory Committee

Stakeholders represented during rule-making:

- Builders - WI Builders Association
- Consulting Industry
- Environmental Org. - Rivers Alliance
- Government units and agencies
  - Wisconsin Towns Association
  - Municipal Environmental Group
  - City & County Engineering Depts.
  - Dept. of Administration
  - Dept. of Commerce

Result is NR 528 - an innovative regulatory approach designed to:

- Address a large number of sediment management projects in a manner that is:
- Efficient
- **Protective** of public health & the environment,
- **Clear and flexible** in terms of requirements,
- **Consistent** in its implementation.

NR 528: How the rule works

Compliance through Certification Form

- **Guides** sediment manager through process of evaluating risk through form completion,
- Relies on the sediment manager to accurately complete form & **attest to (certify)** compliance**,**
- Documents **all elements of self-implementation** process**.**

NR 528: How the rule works

- **Category I - "Clean" sediment** by rule:
  - no sampling,
  - no environmental professional,
  - compliance with setbacks & performance stds.
- **Category II -** "Clean" sediment criteria **not** met:
  - sampling required,
  - environmental professional samples sediment & evaluates data,
  - ceiling levels not exceeded,
  - sediment use per NR 528.07.
- **Category III – Exceedance of ceiling level(s):**
  - dispose in **landfill.**
  - NR 528 **not applicable.**

Use options for accumulated sediment

- **Landfill** – daily or final cover,
- **Small quantity,**
- **General fill,**
- **Confined fill,**
- **Landspreading,**
- **Dedicated sites,**
- **Other control authority** (WDOT, NR 135).

Use options (disposal – not NR 528)

- Landfill disposal or use as daily or final cover – check w/ landfill for any specific requirements.

Use options

Small quantity, coarse grained use - promotes regular, (< 100 cubic yds.) maintenance of forebays and inlets to structures.

Use options

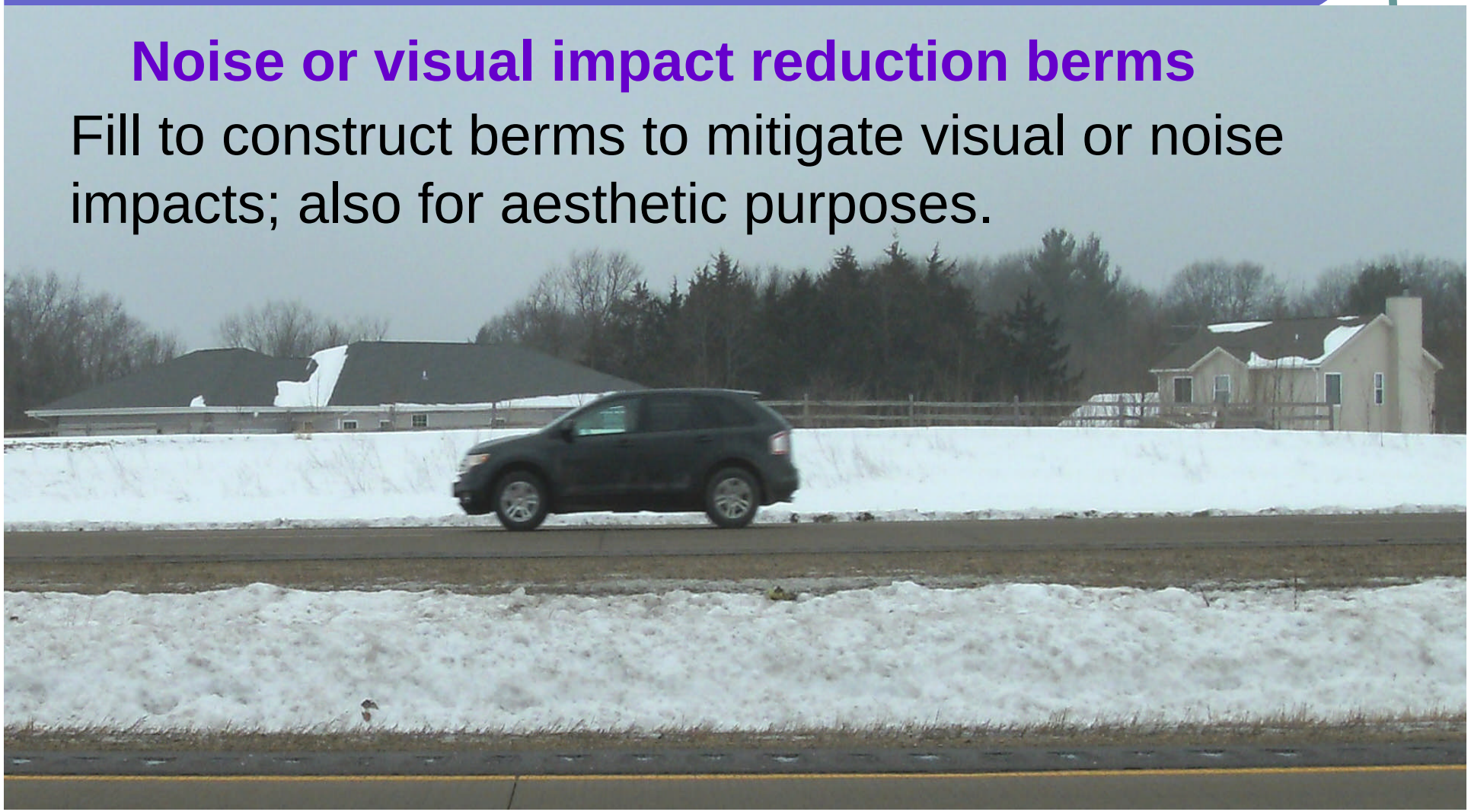
General fill

Sediment deposited to improve a site by enhancing contours & drainage, filling depressions, stabilizing exposed borrow areas or similar disturbed sites.

Use options

Noise or visual impact reduction berms

Fill to construct berms to mitigate visual or noise impacts; also for aesthetic purposes.



Use options

Confined fill (minimal exposure to environment)

- geotechnical (sub-base under paved lots, or subgrade for building construction,
- bridge abutment,
- utility trench backfill,
- covered by an impervious surface such as concrete, asphalt, a building, etc.

Use options

- **Dedicated sites**

…**like landspreading** but more **flexible because control of site access, year-round availability & possible higher annual rates & cumulative application totals.**

Use options

Landspreading

- Site selection criteria – soil texture,
- Maximum application rates:
  - at any one time,
  - for life of site,
- Other site management issues (such as incorporation)
- Recordkeeping.

Sediment use - Other control authority:
Wisconsin Department of Transportation

Material for WDOT Transportation Projects:

According to standard specifications (assures equivalent environmental protection) & applies to all WDOT projects – enforceable through contracts.

or reclamation (next)

Sediment use - Other control authority:

County NR 135 Regulatory authorities

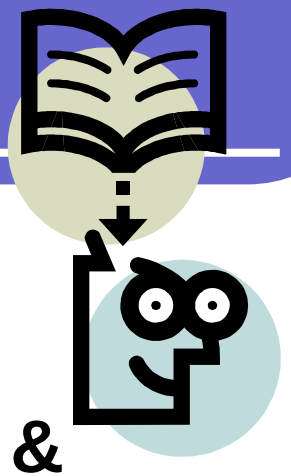
In accordance with a mine **reclamation permit.**

Soil substitute material.

A variety of materials, including compost, organic waste, sediment, etc. could be components of soil substitute material.

Fill Material

On-line Tools



On-line tools for sediment managers & environmental professionals:

- NR 528 rule,
- Cert. form &
- Tech. Support Guide PUB-WA 1375

@ DNR SW site:

http://dnr.wi.gov/org/aw/wm/solid/nr528/index.htm

Questions & Discussion: