

Reclamation Sites *THE RIGHT WAY*



IDENTIFY SITES EARLY

- Sites must be approved prior to stockpiling, wasting or borrowing material
- Ensure sites meet the Environmental Requirements
 - **Buffer zones**
 - 400' from wetlands and streams for Borrow Pits being excavated below the water table (unless **Skaggs method** shows less and is approved by ACOE)
 - 25' undisturbed vegetated buffer for wetlands at Waste Sites
 - 50' undisturbed vegetated buffer for streams at Waste Sites
 - 10' property line buffer for Waste and Borrow Sites
 - **NO Threatened and Endangered Species present**



100 Year Floodplain

- Waste or borrow activities can NOT occur within the 100 year floodplain or within HQW Zones unless superseded by an environmental permit.



Temporary Stockpiles

- Requires a Reclamation Plan if placed beyond the project limits.



Staging Areas

- May require Reclamation Plans if they contain erodible material and are located beyond the project limits.



Skaggs Method

- When jurisdictional areas are found to be within 400 ft. of the proposed borrow pit, follow the procedures outlined in the *Skaggs Method for Determining Lateral Effects of a Borrow Pit on Adjacent Wetlands*, found on REU Field Operations website, when proposing buffers less than 400 ft.
- A computer program is now available and can be accessed through the Field Ops website.
- Website Address:
(http://www.ncdot.org/doh/operations/dp_chief_eng/roadside/fieldops/downloads/)

Skaggs Method

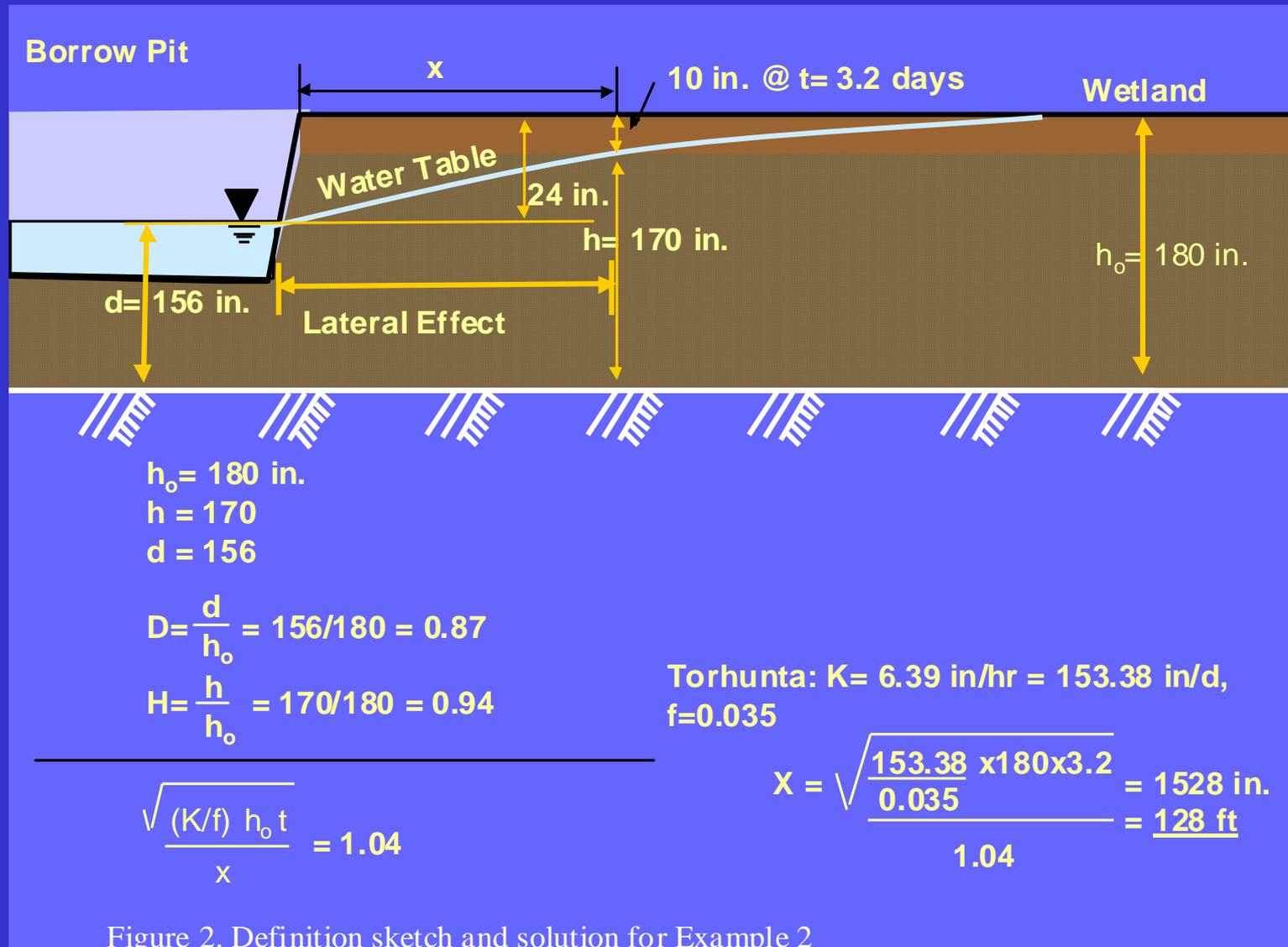


Figure 2. Definition sketch and solution for Example 2

Elements of a Reclamation Plan

- Reclamation Plan Form - "Narratives"
- Name of Plan Preparer
- Level III-B E&SC / SW Cert. # of Preparer
- Vicinity Map
- Signatures
- Environmental Evaluation
- SHPO Letter for Borrow and Waste Sites
- EC Plan with adequately designed measures
- Seeding specifications
- 1-year post final review



Requirements for Commercial Sites



- Mining Permit Cover page or Approval Letter which will include the permit number.
- Location map
- Site Plan
- Ensure the commercial site is permitted for the type of waste that is proposed.
 - Ex. LCID sites can not take earthen material
- Be aware of Streams, Buffer Zones and Wetland areas within the site that may not be addressed by the owner's Mining Permit or E&SC Plan.

Temporary Stockpile on Commercial Site

- Did NOT require a Reclamation Plan
- Site was within the boundaries of an active Private E&SC plan
- Lead Engineer discussed situation with Land Quality to determine if the site could handle the material.
- Required
 - Approval Letter
 - Location map
 - Site Plan
- Be aware of other potential jurisdictional impacts



APPROVAL PROCESS

- Contractor to submit 10 copies of the completed package to the Lead Engineer
- Lead Engineer will review and solicit comments from the DEO and Roadside Environmental Field Ops
- Follow the Checklist - "NO's" should throw up a flag
- Lead Engineer will approve if all requirements of the Reclamation Plan are addressed





DURING CONSTRUCTION

- Delineate buffer zones and utilize highly visible fencing.
- Install EC devices along perimeter and along haul roads
- Excavate/Build slopes in a manner which allows for stage seeding of slopes
- Monitor the turbidity of Borrow Pit discharge
 - Turbidity Reduction Matrix and Dewatering Log can be found on REU Field Ops Website
- Sites are considered “single source”, unless the site has commercial status.



50' Buffer



Slopes Excavated Properly



Vertical Slopes



Poor Stage Seeding



FINAL ACCEPTANCE

- Borrow and Waste Sites must meet all the requirements of the Reclamation Plan.
- Permanent stand of vegetation must cover the entire site.
- Temporary EC devices should be removed.
- Property owner will be notified that the site is complete and that inspections and possible repair work may be required during the coming year.
- Site will be reviewed after 1 year and released if the site is deemed stable.



Pit Stabilization

- Stabilize pit slopes as soon as possible.
- Contractor will be responsible for 1 year after acceptance.





Poor vegetation
establishment



Established
Vegetation

Recent / Proposed Changes

- As of January 2008, Level III-B Erosion & Sediment Control / Stormwater certification is required for plan preparer.
- Plan preparer to include name and certification # on plans.
- If site is within 100 year floodplain, environmental permits must be attached.
- Mandatory letter from State Historic Preservation Office must be attached

FOR MORE INFORMATION

- Procedures can be found at the Roadside Environmental Field Operations website:
 - INTERACTIVE PDF FORMS

North Carolina Department of Transportation
Roadside Environmental Unit
Field Operations

HOME CONTACT SEARCH!

NC DOT
NC DOH
NC GOV

IMPORTANT DOWNLOADS | GENERAL INFORMATION | KNOW BEFORE YOU MOW | LINKS

» FIELD OPERATIONS

IMPORTANT DOWNLOADS
GENERAL INFORMATION
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Contact Info

- State REU Field Ops
- Divisions 1 & 2
- Divisions 3 & 6
- Divisions 4
- Divisions 7
- Divisions 8
- Divisions 9
- Divisions 1
- Divisions 1

LINKS

HOME » IMPORTANT DOWNLOADS

IMPORTANT DOWNLOADS

 **CPSWQ Review Course** - April 27, 2006 (Late Reg Fees apply after April 3, 2006)

[CPSWQ Registration Form](#)  (94 KB) - Interactive Form

RECLAMATION PLAN PROCEDURES FOR:

[OPERATIONS Projects](#)  (534 KB) - Interactive Form

[CONTRACT Projects](#)  (564 KB) - Interactive Form

CENTRAL COASTAL PLAIN CAPACITY USE AREA:

[Map](#)  (186 KB)

[Spreadsheet](#)  (28 KB)

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