

SESC 101: Transportation Edition

Presented by:

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DEQ-WRD



Outline

- 1. Overview of Laws**
- 2. The Audit Process and its Requirements**
- 3. Stabilization Requirements**

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Part 91



Authorized Public Agencies

- APA: State and local units of government designated by the DEQ after training staff and adopting DEQ approved SESC procedures.



Part 31



Which Regulations Apply?

Part 91 &
> 5 Acres

Notice
of
Coverage

Part 91 &
1 < 5

Acres
Permit-
by-Rule

< 1 Acre

Part 91



Certified Construction Storm Water Operator



STATE OF MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY	
This is to certify that	
Joe Dirt	
is qualified under the rules governing certification to operate any facility listed under the classification	
STORM WATER MANAGEMENT – CONSTRUCTION SITE	
A-1j	
CERTIFICATE NO. C-7291979	EXPIRES JULY 1, 2022
Issued by the Director of the Department of Environmental Quality Under Authority of Act 451 P.A. 1994, Part 31 as amended	
EQC 3450-1 (Rev 3/25/2011)	

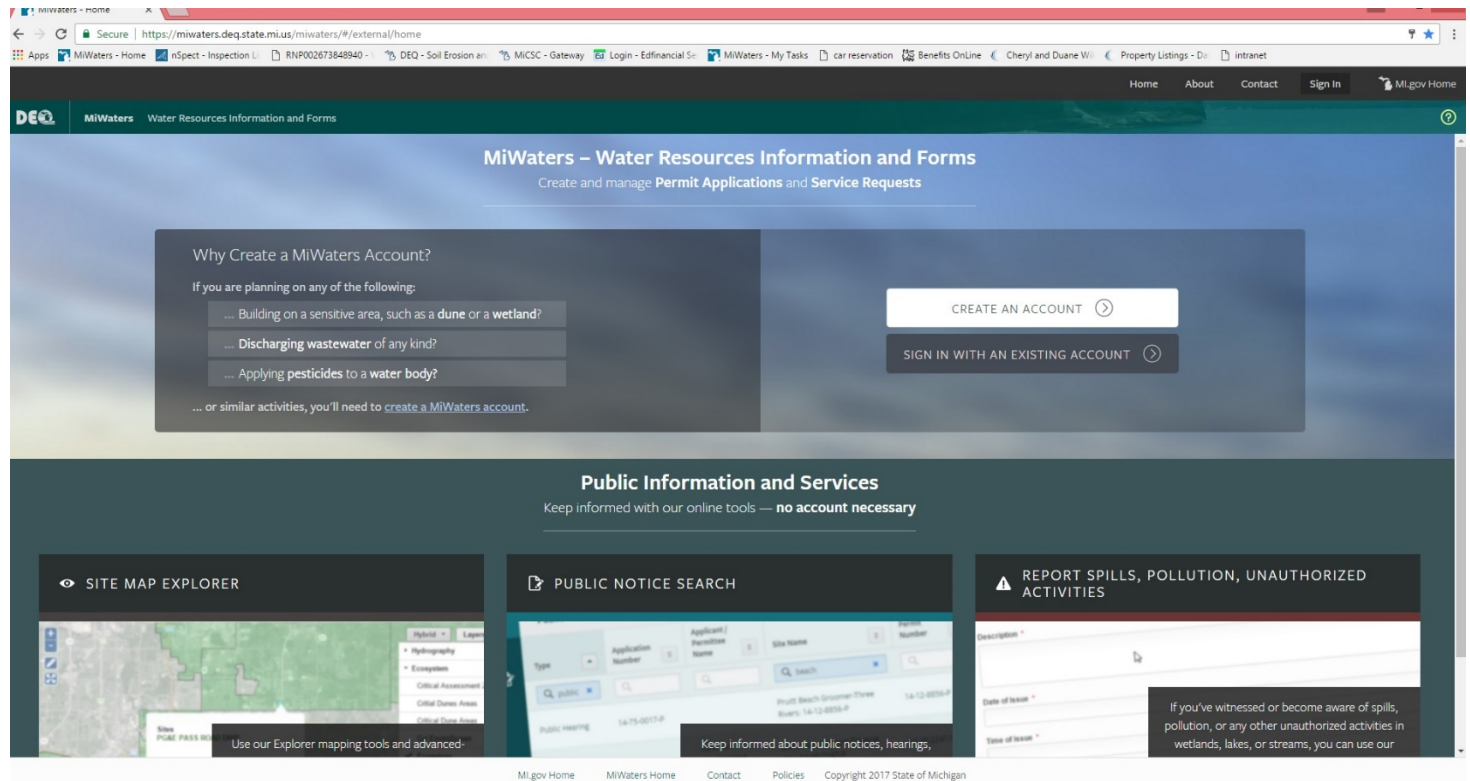
Training is offered monthly,
throughout the state.

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Permit by Rule Inspections:

- Earth Changes 5 acres or greater with a discharge to surface waters of the state requires an NOC and....
- Earth Changes between 1 and 5 acres with a discharge to surface waters of the state is covered by Permit-by-Rule (PBR)
 - **Both must be...**
 - inspected by a Certified Storm Water Operator (CSWO) at least once per week and within 24 hours of a precipitation event resulting in a discharge from the site.

NOC and MiWaters



The screenshot displays the MiWaters website, which is part of the Michigan Department of Environment and Natural Resources (DEQ). The page is titled "MiWaters – Water Resources Information and Forms" and provides a platform for creating and managing permit applications and service requests. The interface includes a navigation bar with links to Home, About, Contact, and Sign In. A prominent section titled "Why Create a MiWaters Account?" lists activities that require an account, such as building on sensitive areas, discharging wastewater, and applying pesticides. Below this, there are buttons for "CREATE AN ACCOUNT" and "SIGN IN WITH AN EXISTING ACCOUNT". The "Public Information and Services" section offers tools for site map exploration, public notice search, and reporting spills or pollution. The site map explorer shows a map of Michigan with various layers like Hydrography and Ecosystems. The public notice search tool allows users to search for notices by type, application number, or site name. The report spills section provides a form for reporting unauthorized activities in wetlands, lakes, or streams.

miwaters - home

Secure | <https://miwaters.deq.state.mi.us/miwaters/#/external/home>

Apps | MiWaters - Home | nSpect - Inspection | RNP002673648940 | DEQ - Soil Erosion | MCSC - Gateway | Login - EdFinancial | MiWaters - My Tasks | car reservation | Benefits Online | Cheryl and Duane W. | Property Listings - D | intranet

Home | About | Contact | Sign In | Mi.gov Home

DEQ | **MiWaters** | Water Resources Information and Forms

MiWaters – Water Resources Information and Forms

Create and manage **Permit Applications** and **Service Requests**

Why Create a MiWaters Account?

If you are planning on any of the following:

- ... Building on a sensitive area, such as a **dune** or a **wetland**?
- ... **Discharging wastewater** of any kind?
- ... Applying **pesticides** to a **water body**?

... or similar activities, you'll need to [create a MiWaters account](#).

[CREATE AN ACCOUNT](#)

[SIGN IN WITH AN EXISTING ACCOUNT](#)

Public Information and Services

Keep informed with our online tools — **no account necessary**

SITE MAP EXPLORER

Use our Explorer mapping tools and advanced-

PUBLIC NOTICE SEARCH

Keep informed about public notices, hearings,

REPORT SPILLS, POLLUTION, UNAUTHORIZED ACTIVITIES

If you've witnessed or become aware of spills, pollution, or any other unauthorized activities in wetlands, lakes, or streams, you can use our

Mi.gov Home | MiWaters Home | Contact | Policies | Copyright 2017 State of Michigan





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What to Expect When You Are Audited by DEQ



Audit Timeline - Getting started with the SESC Audit

MDEQ conducts SESC audits approximately every 5 years:

1. DEQ calls to schedule date and time
2. DEQ sends a digital questionnaire and audit confirmation email requesting the following items:

Digital Questionnaire Information Requested

- Completed digital questionnaire
- The approved APA SESC Operating Procedures
- Inspection Form/Checklist
- Sample copies of SESC plans
- Written guidelines or procedures used in lieu of plans for maintenance projects
- Sample bid language used for enforcing Part 91 with contractors,

Audit Timeline Cont....

3. APA staff complete digital questionnaire, collect requested submittals, and return to DEQ (preferably digitally).
4. DEQ staff will review the contents of submittals and may try to inform APA of necessary changes prior to the field visit.
5. Scheduled field visit (typically 1-2 days)
 - a) Review digital questionnaire
 - b) Review files (plans, inspections, etc.)
 - c) On-site visits/inspections
 - d) **Audit can also include inspections performed between audits.**

Audit Timeline Cont....

6. DEQ will compile the audit results and send a letter indicating one of the following:
 - APA Approval
 - Violation Notice (includes required changes and gives 60 days to correct)
7. DEQ and APA will work together to make any changes necessary in ~60 days.
8. DEQ will send one of the following letters:
 - a) APA Approval
 - b) Proposal to Disapprove

APA Requirements

- Procedures
- Staff Training
- Funding
- Inspections
- Site Conditions
- Compliance and Enforcement Procedures
- SESC Plans



APA Procedures

- The SESC Operating Procedure is a document describing the practices & methods used by an APAs to meet Part 91 SESC Program requirements.
- APA must have a current, adopted, and MDEQ approved procedure.
- Road Commission Procedure template is available.

Part 91 Inspections

- APA's shall conduct **documented** inspections to assure the minimization of soil erosion and off-site sedimentation.
- The Agency may develop a prioritization frequency



Considerations for Site Prioritization

- Size of disturbance
- Time length of disturbance
- Proximity to surface waters
- Direct Connection to surface waters (pipes channels)
- Soil types
- Slopes
- Contractor historical performance
- Others?



Soil Erosion Inspection Log

Project Name or Description:

Page ____ of ____

NPDES Number: _____

Date: _____ Time: _____ Certified Operator: _____ Operator #: _____

Reason for Inspection: _____ Weekly Inspection _____ Inspection After Storm Water Runoff

Observations: _____

Corrective Actions Taken/Needed: _____

Signature: _____ Operator Number: _____

Print Name: _____

REMEMBER TO REFER TO THE SITE PLANS OR SKETCH



Staff Training

- Inspectors
 - Construction Storm Water Certified Operator Training
- Plan Review/ Design
 - SESC Plan Review and Design Training





Training is required for all individuals with decision-making authority

OPTION 1 – SESC & Construction Site Storm Water Operator Inspector Training allows staff to:

- Inspect sites to determine compliance with the SESC Plan
- Document Inspections
- Identify SESC measures that are failing or require maintenance
- Identify areas where additional measures MAY be needed
- Report Findings to the landowner or Comprehensive Certified individual for the APA

Example: Inspectors Report

- **Check Dam on the plan is installed**
- **Installed incorrectly**
- **Needs Maintenance**
- **May need additional check dams**





Example: Inspectors Report

- Long, gradual ditch slope is eroding and discharging sediment to stream
- No SESC measures identified in the SESC Plan
- Additional measures are needed immediately to prevent further discharge
- Inspection report goes to Comprehensive Trained staff for further action



Training is required for all individuals with decision-making authority

OPTION 2 – Comprehensive SESC Training allows staff to:

- *** All Comprehensive SESC Trained Staff must first receive their Inspector Training Certificate
- Review and/or design SESC Plans.
- Make determinations to pursue enforcement action for non compliance with Part 91 & Rules
- Make SESC Plan updates for the APA
- Review and/or design SESC measures or make determinations that design assistance is needed.



Alternate Example: Inspectors Report from Comprehensive Trained staff

- Ditch slope length longer/left open longer than anticipated, and eroding from light rain
- No SESC measures identified in the SESC Plan and additional measures are needed.
- Action now: Install 3 combination check dams and sediment traps to prevent discharge and install mulch blanket to temporarily stabilize.
- Inspection report goes to the boss and file.

Funding

- MDEQ considers information provided by the APA about funding
- Is the funding adequate to effectively administer and enforce the program?



Compliance and Enforcement Procedures

- An APA must have effective compliance and enforcement efforts and procedures
- Outline of the steps the agency will take to return the site to compliance

SESC Plans

- APA's shall have SESC plans for projects that are not described under the specific guidelines in the approved
- The SESC plans must meet the requirements of Rule 1703.



**Part 91, Soil Erosion and Sedimentation Control Plan****Minimum Requirements**

Project:

Rule 1703 Requirement	Included in Plan?*	Comments
Map with scale: 1" = 200' or less, or indication of exact distances between noted features on site plan	Yes No <input type="checkbox"/> <input type="checkbox"/>	
Legal description of property (town, range, section, quarter-quarter section)	Yes No <input type="checkbox"/> <input type="checkbox"/>	
Proximity of any proposed earth change to lakes and/or streams	Yes No <input type="checkbox"/> <input type="checkbox"/>	
Predominant land features	Yes No <input type="checkbox"/> <input type="checkbox"/>	
Slope description or contour intervals	Yes No <input type="checkbox"/> <input type="checkbox"/>	
Soils survey or written description of the soil types of the proposed exposed land area	Yes No <input type="checkbox"/> <input type="checkbox"/>	
Description and location of the physical limits of each proposed earth change	Yes No <input type="checkbox"/> <input type="checkbox"/>	
Description and location of all existing and proposed on-site drainage and dewatering facilities	Yes No <input type="checkbox"/> <input type="checkbox"/>	
Timing and sequence of each proposed earth change	Yes No <input type="checkbox"/> <input type="checkbox"/>	
Location and description for installing and removing all temporary SESC measures	Yes No <input type="checkbox"/> <input type="checkbox"/>	
Description and location of all proposed permanent SESC measures	Yes No <input type="checkbox"/> <input type="checkbox"/>	
Maintenance program for all permanent SESC measures and designation of person responsible for maintenance	Yes No <input type="checkbox"/> <input type="checkbox"/>	

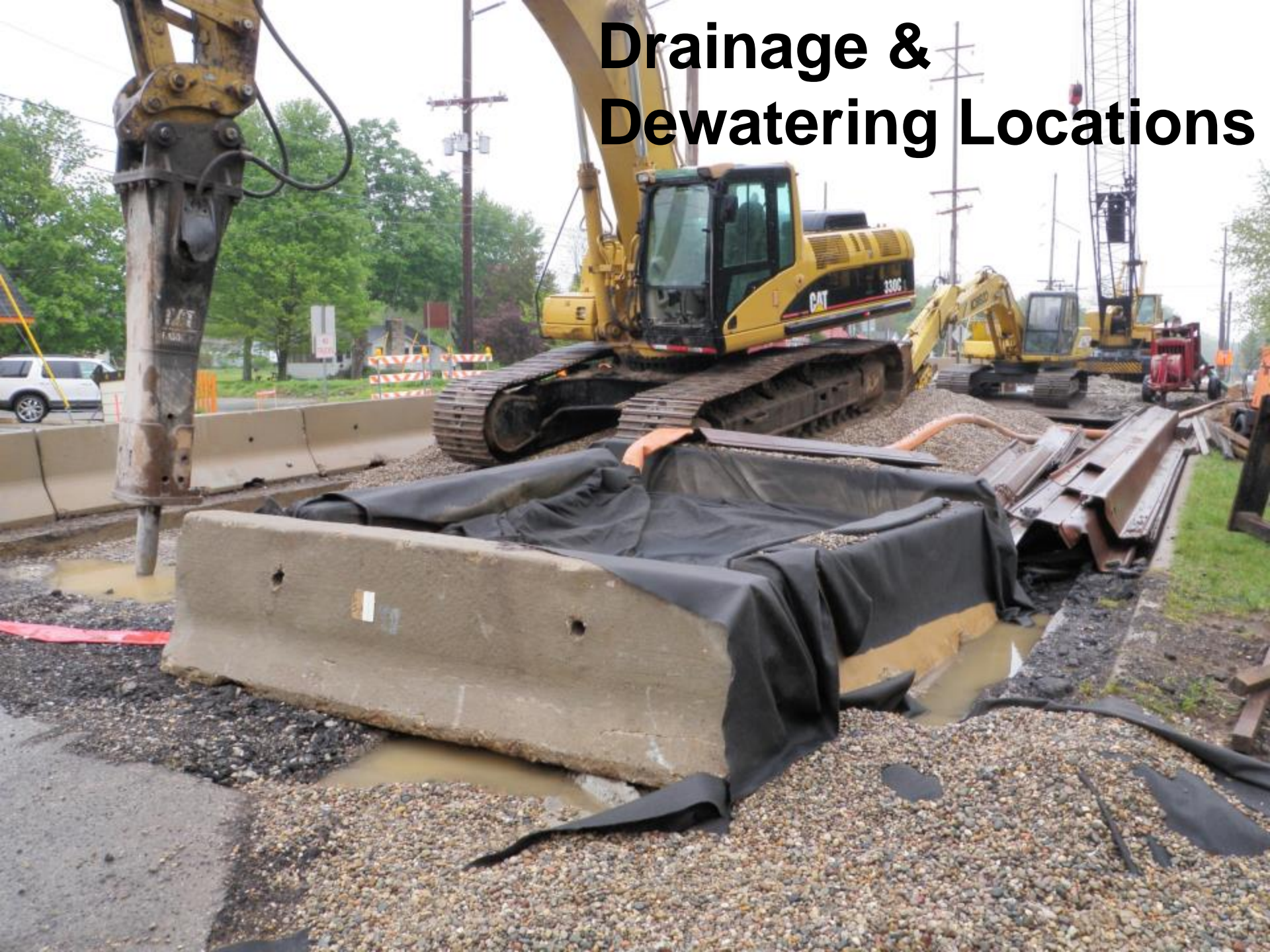
*If No is checked above, the plan must be revised to include the missing element prior to submittal/approval.

Other Comments:

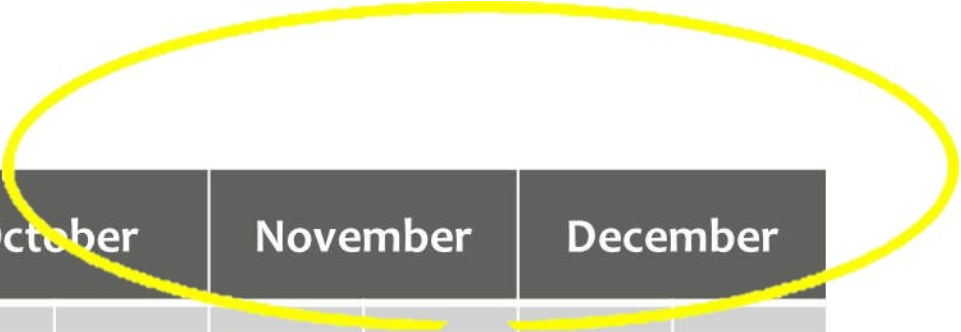
Limits of Earth Change



Drainage & Dewatering Locations



Timing & Sequencing



	September	October	November	December
Temporary SESC Measure Install	■	■	■	■
Strip & Stockpile topsoil	■	■	■	■
Rough Grade	■	■	■	■
Construct Road	■	■	■	■
Restoration Permanent SESC	■	■	■	■

Timing & Sequencing

	September	October	November	December
Strip & Stockpile topsoil				
Install Temporary SESC Measures				
Rough Grade				
Construct Road				
Restoration Permanent SESC				

SESC Installation Details

*SOIL EROSION AND SEDIMENTATION
CONTROL MANUAL
April 2006*



CONSTRUCTION AND TECHNOLOGY
SUPPORT AREA



Site Conditions



**WHERE IT ALL
COMES TOGETHER**





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Vegetation



When Is a Site Considered Stabilized?

- “Stabilization means the establishment of vegetation or the proper placement, grading, or covering of the soil to ensure its resistance to soil erosion, sliding, or other earth movement.”



Stabilized



Not Stabilized





Not Stabilized





Not Stabilized





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