Temporary Exposed Soil Stabilization:
3882 Mulch Materials
Flow Chart Decision Matrix
Sheet 1.

Determine time of year with exposed soil

Are there frozen ground conditions?
No

Determine type of potential erosion

Is the mulch for trackout control?
Yes

Apply Mulch Type 5 (Wood Slash) following Detail Sheet

Is the mulch for temporary or permanent landscape operations?
No

Apply Mulch Type 6 (Landscape Chips)

Yes

Can mulch application occur within 24 hours of seeding?
No

Delay seeding until conditions are correct. May need to apply temporary covers to remain within stabilization timeframe.

Is temporary soil stabilization greater than 2 acres contiguous?
Yes

Apply appropriate Rapid Stabilization Method.

No

Are prevailing winds greater than 15 MPH?
Yes

If unable to apply uniformly, delay to different time of day, or apply other EC BMP

No

Are not existing winds?
Yes

In wrong direction for retaining mulch long enough for anchoring?
Yes

Stop operation or accept as is, fix ruts that have occurred, apply other stabilization BMP

No

Is the soil safe (<1:3) for disk anchoring?
No

Apply Mulch Type 4 (Typically Type 1 and SFM overspray) at slope length and steepness limits, or other EC BMP

Yes

Is the soil in a loose, friable condition suitable for disk anchoring?
No

Apply Mulch Type 4 (Typically Type 1 and SFM overspray) or other EC BMP

Yes

Does the soil consist of low cohesive properties of sands or loose mucks?
Yes

Are not prevailing winds?
Yes

In direction for retaining mulch long enough for anchoring?
Yes

Stop operation or accept as is, fix ruts that have occurred, apply other stabilization BMP

No

Determine slope steepness and slope length (application rate at 90 percent coverage, approximately 2 tons per acre).

Is the slope less than 1.3 and less than 325 feet long?
No

Is the slope between 200 and 325 feet?
Yes

Maximum limit for mulch is 325 feet, at a slope steepness not to exceed of 5 percent. Add contour slope breaks of RECP every 75 feet when at limit.

Slope steepness not to exceed 10 percent. Add contour slope breaks of RECP every 75 feet when at limit.

Slope steepness not to exceed 15 percent. Add contour slope breaks of RECP every 75 feet when at limit.

Slope steepness not to exceed 20 percent. Add contour slope breaks of RECP every 75 feet when at limit.

Maximum limit for mulch is 325 feet, at a slope steepness not to exceed of 5 percent. Add contour slope breaks of RECP every 75 feet when at limit.

Slope steepness not to exceed 20 percent. Add contour slope breaks of RECP every 75 feet when at limit.

Slope steepness not to exceed 35 percent.

Go to Sheet 2
Temporary Exposed Soil Stabilization: 3882 Mulch Materials
Flow Chart Decision Matrix
Sheet 2.

Continued from Sheet 1.

Determine desired performance, functional longevity of Mulch Materials

- Does Erosion prevention need to last less than 3 weeks?
  - Yes: Go to HECP, or hand install Mulch Type 1
  - No
    - Erosion Prevention less than 3 months?
      - Yes: Any Mulch Material Type acceptable within performance limits.
        - Is the area require permanent vegetation over the exposed area?
          - No: Apply Mulch Type 5 (Wood Slash), 25 tons per acre, slope not to exceed 33 percent and 100 feet long. Go to RECP.
        - No: Any Mulch Material Type acceptable within performance limits.

- Erosion prevention less than 9 months?
  - Yes
    - Erosion Prevention more than 12 months?
      - Yes: Any Mulch Material Type acceptable within performance limits.
        - Does the erosion prevention need to last overwinter?
          - Yes: Apply Mulch Type 5 (Wood Slash), 25 tons per acre, slope not to exceed 33 percent and 100 feet long. Go to RECP.
          - No: Any Mulch Material Type acceptable within performance limits.
      - No
        - Erosion Prevention Permanent?
          - Yes: Apply Mulch Type 9 Aggregate
          - No: Any Mulch Material Type acceptable within performance limits.

- Erosion Prevention less than 3 months?
  - Yes: Any Mulch Material Type acceptable within performance limits.

- Erosion Prevention less than 9 months?
  - Yes: Any Mulch Material Type acceptable within performance limits.

Determine type of seed mixture (Urban sods, non-native, native, landscape plants).

- Is the mulch application for non-native seed mixtures of 1x-xxx or 2x-xxx?
  - No: Is there a need for supplemental seed as part of the mulch material?
    - Yes: Specify and apply Mulch Type 3 (Certified Weed Free grain straw or native grass).
    - No: Specify and apply Mulch Type 8 (Prairie Hay)
  - Yes: Is safety from thrown or mowed aggregate a potential problem?
    - No: Specify and Apply Mulch Type 9 Aggregate
    - Yes: Specify and Apply Synthetic or coir landscape mat

For condition not as above, Contact OES