Temporary Exposed Soil Stabilization:

Hydraulic Erosion Control Products

Flow Chart Decision Matrix

Start Here

Determine time of year with exposed soil

- Is it Winter?
  - Yes: Install rock aggregate, straw mulch, remove snow for HECP, or PRM
  - No:
    - Is the erosion due to raindrop energy soil detachment?
      - Yes: Erosion Prevention less than 7 weeks or dust suppression?
        - Yes: Apply Hydraulic Mulch
        - No: Apply Hydraulic Synthetic Tackifier
      - No: Erosion Prevention less than 3 months
        - Yes: Apply Hydraulic Mulch
        - No: Apply Hydraulic Synthetic Tackifier
    - No: Erosion Prevention less than 12 months
      - Yes: Apply Hydraulic Bonded Fiber Matrix
      - No: Erosion Prevention more than 12 months or over-winter?
        - Yes: Apply Hydraulic Fiber Reinforced Matrix within limits of this matrix doc.
        - No:
          - Is the erosion due to concentrated flows causing gully soil displacement?
            - Yes:
              - Is the soil organic matter and textural type?
                - Yes: Apply Hydraulic Natural Tackifier over mulch
                - No: Add Hydraulic PAM Tackifier
            - No:
              - Is there soil?
                - Yes: Apply Hydraulic Natural Tackifier over mulch
                - No: Add Hydraulic PAM Tackifier
          - No: Are the soils low in organic matter (< 2 percent)?
            - Yes: Contact OES
            - No: Add Hydraulic PAM Tackifier

- No: Determine amount of soil erosion prevention failure risk willing to assume
  - Is there soil?
    - Yes: Apply Hydraulic Natural Tackifier over mulch
    - No: Add Hydraulic PAM Tackifier
  - No:
    - Are the soils low in organic matter (< 2 percent)?
      - Yes: Contact OES
      - No: Add Hydraulic PAM Tackifier
    - No: Are the soils high in clay (> 5 percent)?
      - Yes: Add Hydraulic PAM Tackifier
      - No: Are the soils high in silt (> 35 percent)?
        - Yes: Add Hydraulic PAM Tackifier
        - No: Are the soils high in clay (> 15 percent)?
          - Yes: Add Hydraulic PAM Tackifier
          - No:
            - Is there concern of organic contamination of grading soil?
              - Yes: Contact OES
              - No: Add Hydraulic PAM Tackifier
            - No: Contact OES

Determine soil steepness

- Is the slope less than 6:1?
  - Yes: Apply Hydraulic Compost Matrix
  - No:
    - Is the slope less than 3:1?
      - Yes: Add Hydraulic PAM Tackifier
      - No: Are the soils high in clay (> 15 percent)?
        - Yes: Add Hydraulic PAM Tackifier
        - No: Are the soils high in silt (> 35 percent)?
          - Yes: Add Hydraulic PAM Tackifier
          - No: Are the soils low in organic matter (< 2 percent)?
            - Yes: Contact OES
            - No: Add Hydraulic PAM Tackifier
        - No:
          - Is the slope less than 2:1?
            - Yes: Add Hydraulic PAM Tackifier
            - No: Are the soils low in organic matter (< 2 percent)?
              - Yes: Contact OES
              - No: Add Hydraulic PAM Tackifier
          - No: Are the soils high in clay (> 5 percent)?
            - Yes: Add Hydraulic PAM Tackifier
            - No:
              - Is the slope less than 1:1?
                - Yes: Add Hydraulic PAM Tackifier
                - No: Are the soils high in silt (> 35 percent)?
                  - Yes: Add Hydraulic PAM Tackifier
                  - No:
                    - Is the slope steeper than 1:1?
                      - Yes: Add Hydraulic PAM Tackifier
                      - No:
                        - Is the slope less than 50 ft horizontal?
                          - Yes: Apply Hydraulic Bonded Fiber Matrix
                          - No:
                            - Is the slope less than 75 ft horizontal?
                              - Yes: Apply Hydraulic Fiber Reinforced
                              - No:
                                - Is the slope less than 100 ft horizontal?
                                  - Yes: Apply Hydraulic Fiber Reinforced
                                  - No: Contact OES
            - No: Contact OES
        - No:
          - Are the soils low in organic matter (< 2 percent)?
            - Yes: Contact OES
            - No: Add Hydraulic PAM Tackifier
    - No: Contact OES

Determine soil exposure length

- Is the slope length less than 300 ft horizontal?
  - Yes: Do not use HECP
  - No:
    - Is the slope length less than 30 ft horizontal?
      - Yes: Apply Hydraulic Stabilized Fiber Matrix
      - No:
        - Is the slope length less than 50 ft horizontal?
          - Yes: Apply Hydraulic Bonded Fiber Matrix
          - No:
            - Is the slope length less than 75 ft horizontal?
              - Yes: Apply Hydraulic Fiber Reinforced
              - No:
                - Is the slope length less than 100 ft horizontal?
                  - Yes: Apply Hydraulic Fiber Reinforced
                  - No: Contact OES