|  |  |
| --- | --- |
| **QUESTION** | **Application** |
| **SC1.1** | **Is the Temporary Silt Fence applied as required - temporary linear barrier (perimeter control)?** |
| **CGP, Attachment C.E.1, D.E.1, E.E.1** | Risk Level 1, 2 and 3 dischargers shall establish and maintain effective perimeter controls and stabilize all construction entrances and exits to sufficiently control erosion and sediment discharges from the site. |
| **LTP, Section VIII.B** | Dischargers shall implement a combination of sediment and erosion controls to prevent or minimize sediment discharges from the site. Control measures shall include, but are not limited to, the following items:  **1.** Install temporary sediment controls for the down-gradient perimeter of the project site, and/or any location where storm water or authorized nonstorm water may discharge from the project site, prior to the initiation of any construction-related activities. |

|  |  |
| --- | --- |
|  | **Installation** |
| **SC1.2** | **Is the Temporary Silt Fence or Temporary Reinforce Silt Fence installed properly?** |
| **SPECs, 13-10.03A General** | Before installing a temporary linear sediment barrier, remove obstructions, including rocks, clods, and debris greater than 1 inch in diameter from the ground. |
| **SPECs, 13-10.03E Temporary Reinforced Silt Fences** | Place a temporary reinforced silt fence parallel with the slope contour. For any 50-foot section of reinforced silt fence, do not allow the elevation at the base of the fence to vary by more than 1/3 of the fence height.  Install temporary reinforced silt fence as follows:  1. Dig a 6-inch deep trench.  2. Place the wire mesh and the bottom of the silt fence fabric in the trench.  3. Place posts on the downhill side of the fabric and wire mesh.  4. Attach the silt fence fabric to the wire mesh with tie wires or locking plastic fasteners along the length of the fence at not more than 3-foot horizontal spacing and from top to bottom at not more than 8-inch vertical spacing.  5. Backfill the trench with soil by hand or mechanical tamping to secure the silt fence fabric and the wire mesh in the trench.  6. Attach guy wires and anchors at each post. Install at least 2 anchors and guy wires at angle points and end posts.  Connect sections of temporary reinforced silt fence as follows:  1. Join separate sections of the silt fence to form reaches not more than 500 feet long. Each section must be a continuous run of silt fence from end-to-end or from an end to an opening, including joined panels.  2. Secure the end posts of each section by wrapping the tops of the posts with at least 2 wraps of 16-gauge tie wire.  If temporary reinforced silt fence Type 1 is shown, attach high-visibility fabric to the steel posts by using tie wires or locking plastic fasteners. |
| **SPECs, 13-10.03F Temporary Silt Fences** | Construct a temporary silt fence with silt fence fabric, posts, and fasteners assembled at the job site or with prefabricated silt fence.  If prefabricated silt fence is used, attach the fabric to the posts by inserting the posts into the sewn pockets. If assembled at the job site:  1. Fasten the fabric to the posts with staples or nails if wood posts are used  2. Fasten the fabric to the posts with tie wires or locking plastic fasteners if steel posts are used  3. Space the fasteners not more than 8 inches apart  Place temporary silt fence parallel with the slope contour. For any 50-foot section of temporary silt fence, do not allow the base elevation of the fence to vary by more than 1/3 of the height of the fence above the ground.  Install a temporary silt fence as follows:  1. Place the bottom of the fabric in a 6-inch deep trench  2. Secure it with the posts placed on the downhill side of the fabric  3. Backfill the trench with soil and compact by hand or mechanical methods to secure the fabric in the trench  Connect sections of a temporary silt fence as follows:  1. Join separate sections of the silt fence to form reaches not more than 500 feet long. Each section must be a continuous run from end-to-end or from an end to an opening, including joined panels.  2. Secure the end posts of each section by wrapping the tops of the posts with at least 2 wraps of 16 gauge tie wire.  You may install the silt fence by mechanically pushing the silt fence fabric vertically into the soil. Mechanically installed fabric must not slip out of the soil or allow sediment to pass under the fabric. |
| **See Standard Plan Sheet T51** | Temporary Silt Fence |
| **See Standard Plan Sheet T60** | Temporary Reinforced Silt Fence |

|  |  |
| --- | --- |
|  | **Materials** |
| **SC1.3** | **Does the Temporary Silt Fence or Temporary Reinforced Silt Fence consist of the proper materials (fabric, posts)?** |
| **SPECs, 13-10.02C Posts** | Posts must be wood or metal.  Wood posts must be:  1. At least 2 by 2 inches in size and 4 feet long  2. Untreated fir, redwood, cedar, or pine, cut from sound timber  3. Straight and free of loose or unsound knots and other defects that could render the posts unfit for use  4. Pointed on the end to be driven into the ground  Metal posts must:  1. Be at least 4 feet long. 2. Be made of steel.  3. Have a U-shaped, T-shaped, L-shaped, or other cross-sectional shape that can resist failure from lateral loads.  4. Be pointed on the end to be driven into the ground. 5. Weigh at least 0.75 pound per foot.  6. Have a safety cap attached to the exposed end. The safety cap must be orange or red plastic and must fit snugly onto the metal post.  Posts for a temporary reinforced silt fence must be at least 6 feet in length for a Type 1 installation and 5 feet in length for a Type 2 installation. |
| **SPECs, 13-10-02D High Visibility Fence** | High visibility fabric must contain UV inhibitors and comply with the requirements in the following table:   |  |  |  | | --- | --- | --- | | **Property** | **Specifications** | **Value** | | Width, inches, min | Measured | 48 | | Opening size inches | Measured | 1” x 1” (min)  2” x 4” (max) | | Color | Observed | Orange | | Roll weight, lb, min for 4’ x 100’ roll | Measured | 12 | |
| **SPECs, 13-10.02E Wire Mesh** | Wire mesh for a temporary reinforced silt fence must comply with section 80-2.02E, be fabricated from at least 14-gauge horizontal and vertical wires welded at each intersection, and have a maximum opening 2 inches wide by 4 inches high. The fence must be supplied in 50-foot rolls. |
| SPECs, 13-10.02F Wire | Wire for guy wires and tie wires for a temporary reinforced silt fence must be 16-gage iron or steel. |
| SPECs, 13-10.02G Anchors | Anchors for a temporary reinforced silt fence must be fabricated from no. 4 steel reinforcing bar. |
| SPECs, 80-2.02E Wire Mesh | Wire mesh must:  2. Be 32 inches wide  3. Have 8 horizontal wires with vertical stays spaced 6 inches apart  The top and bottom wires must be 10-gauge. The intermediate wires and vertical stays must be 12-1/2 gauge. |

|  |  |
| --- | --- |
|  | **Maintenance** |
| **SC1.4** | **Is the Temporary Silt Fence or Temporary Reinforced Silt Fences maintained properly?** |
| **SPECs, 13-10.03A General** | Maintain a temporary linear sediment barrier to provide sediment-holding capacity and to reduce concentrated flow velocities.  Repair or adjust the barrier whenever rills and other evidence of concentrated runoff are occurring beneath the barrier.  Repair or replace split, torn, or unraveled material. Add or replace posts, stakes, or fasteners as needed to prevent sagging or slumping.  Whenever a barrier becomes detached or dislodged from the pavement, reattach it.  Remove sediment deposits, trash, and other debris as needed or ordered.  Remove sediment deposits whenever the sediment exceeds:  1. 1/3 of the height above ground behind a fence  Whenever you place the removed sediment deposits within the job site, stabilize the sediment deposits to prevent erosion. |
| **CGP, Attachment C.E.1, D.E.1, E.E.1** | Risk Level 1, 2 and 3 dischargers shall establish and maintain effective perimeter controls and stabilize all construction entrances and exits to sufficiently control erosion and sediment discharges from the site. |
| **CGP, Attachment D.E.6; E.E.6** | Risk Level 2 and 3 dischargers shall ensure that all storm drain inlets and perimeter controls, runoff control BMPs, and pollutant controls at entrances and exits (e.g. tire washoff locations) are maintained and protected from activities that reduce their effectiveness. |
| **CGP, Order IV.E Proper Operation and Maintenance** | The discharger shall at all times properly operate and maintain any facilities and systems of treatment and control (and related appurtenances) which are installed or used by the discharger to achieve compliance with the conditions of this General Permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. Proper operation and maintenance may require the operation of backup or auxiliary facilities or similar systems installed by a discharger when necessary to achieve compliance with the conditions of this General Permit. |



