Erosion Prevention and Sediment Control Plan Contractor Checklist

In compliance with the 653.01 EPSC Plan pay item, the Contractor is required to develop and submit an Erosion Prevention and Sediment Control (EPSC) Plan that provides a project-specific strategy to prevent erosion, contain eroded sediment on-site, and maintain compliance with project permits. The EPSC plan can be based off the EPSC plan if one is provided in the contract, otherwise the contractor will develop an EPSC plan on their own. The EPSC Plan shall describe the specific methods and means that the Contractor will use to minimize the potential for violations of the Vermont Water Quality Standards during construction.

The EPSC plan shall be developed in accordance with the Contract Plans, Special Provisions, and other permits applicable to the project. The Contractor will keep the Plan on site at all times. It will be implemented, monitored, and maintained in the field. As needed, the EPSC Plan shall be updated to reflect changes in the field or inadequacies in preventing sediment or sediment-laden water from leaving the construction site.

This checklist is designed for all projects.

1. NARRATIVE

1.1. Project Description

Provide a brief description of the project, including the location and access. Give the reviewer a good idea of what will be happening during construction (temporary bridge; existing or new alignment; rehabilitation or replacement; widening; and other differences from before to after).

Example: Project TOWNNAME BF 0123(45) is a bridge replacement project on VT Route 88 over the Clear River in Townname, VT. The bridge is being built on new alignment and the existing bridge will continue to be open to traffic during construction.

1.2. Site Description

Briefly describe the area within and surrounding the site. What is the area basically comprised of (vegetation, development, road surfaces, topography, etc.)? How close is the nearest waters (lake, stream, wetlands)? The purpose of this section is to make sure that there is full awareness of the site, the surroundings, how runoff moves through the site and where it drains to.

1.3. Access, Staging, and Off-Site Activities

Describe how the project site will be accessed and where materials and equipment (and field office, if applicable) will be located. Indicate whether these areas are within the project limits identified on the Contract Plans, or if they require additional clearance through the Off-Site Activity process. Show adjacent Off-Site Areas to be used on the EPSC plan sheets. Provide information about other Off-Site Areas that are anticipated to be used.

1.4. Contaiminated Material

Acknowledge and address if the site contains urban background area soils or if contaminated materials are identified in the contract. This section does not need to be a detailed soil management plan but needs to address how the material will be stockpiled and/or wasted on or offsite. If the project includes a SMP, referencing the plan may be sufficient.

1.5. Area of Disturbance

Provide the total amount of disturbance for the project. If there are areas for access, staging, or other Off-Site Activities, as described in 1.3 above, that are adjacent to the project (generally within < ¼ mile), these areas should be included in the total amount of disturbance.

NOTE: If this total disturbance is greater than 1 acre, a Construction General Permit is required. Please contact the Construction Environmental Engineer for further guidance.

1.6. Permits & Environmental Commitments

List project specific permits or Environmental Commitments and address any specific conditions relevant to construction.

1.7. Construction Duration and Sequencing

Describe the duration of the project, expected timing, and sequence of construction activities. This does not need to be a detailed construction schedule, but rather a broad overview of activities, how and when they are expected to occur, and any specific EPSC measures that will be used. If there are any seasonal limitations or other permitting date restrictions, they should be included here. Be mindful that vegetation and grass is difficult to establish after September. Someone reviewing the plan should have a good understanding of how the project will progress and how EPSC measures will change.

The EPSC Plan Narrative shall describe:

- *each general construction activity*
- *the specific earth disturbances that will occur in each activity*
- *the EPSC principles and measures to be implemented in conjunction with those activities*

Example: (this is only an example and not intended to dictate preferred principles or measures)

Construction of Headwall

- *Installation of an access road*
  - *Installation of a stabilized construction entrance*
  - *Placement of stone as the road is constructed (100 ft increments)*
  - *Stabilization of the side slopes with mulch or matting within 24 hours*
  - *Installation of check dams in the ditchline*
- *Treatment of Dewatering*
  - *Placement of filter bag (reference and/or provide detail if not included in contract)*
  - *Installation of checkdams to ensure stabilization of filter bag outflow*

1.8. Erosion Prevention and Sediment Control Practices and Measures

The following list of EPSC practices and measures roughly follows the guidance in ANR's Low Risk Site Handbook. Each subsection should identify the means and methods that will be used and where they will be located, as applicable. Measures identified and described here need to be shown on the EPSC plan sheets. The contractor shall provide a list of additional EPSC Measures including a description.

1.8.1. Identifying Limits of Disturbance

How will the limits of disturbance be shown in the field? Project Demarcation Fence or Barrier Fence? If these measures will not be used, provide an explanation what will be used instead, or why they are not necessary.

1.8.2. Limiting Concurrent Disturbance

How will the project be sequenced to limit the area that is disturbed? Stabilizing disturbed work areas as construction progresses is the best practice. Describe how that will be achieved.

1.8.3. Stabilizing Disturbed Areas/Slopes/Access Points, Temporary and Permanent

Describe the methods that will be used to stabilize disturbed areas, both temporarily and permanently. This might include broadcast seeding, temporary mulch, use of matting (RECP), hydroseeding, wood chips, poly sheeting, etc. It could also include stone stabilization with rip rap or gravel. Indicate how frequently temporary measures will be installed.

If there are larger slopes on the project, indicate how these will be protected and stabilized.

Identify how access points to/from the project work site be stabilized and whether Stabilized Construction Entrances will be used.

1.8.4. Diverting Upland Runoff

Will upland runoff be routed around the project work site at all? Describe that here. If possible, this is an effective and valuable strategy to keep both the work site and the receiving water cleaner.

1.8.5. Installing Perimeter Controls

Will the project use perimeter controls (silt fence, erosion logs, earthen berms, etc.) to intercept runoff before leaving the site? Perimeter controls should be installed on the downhill side of disturbed soil and placed across slopes (not up and down slope).

1.8.6. Protecting Inlets

Are there existing or proposed inlets within the project site that will need to be protected during construction? If so, what methods will be used to protect them from sediment-laden water?

1.8.7. Slowing Concentrated Flows

How will areas of concentrated flow within the project site be managed? This could include temporary measures such as water bars across access roads, check dams within ditch lines, or stone splash pads at outlets.

1.8.8. Dewatering

Will there be any dewatering needed as part of the project? Describe what methods will be used and where this will be located.

1.8.9. Concrete Washout

How will concrete wash water be managed? Include a concrete washout detail and show where it will be.

1.8.10. Debris Containment

Describe how debris from structure demolition or other activities will be contained.

1.8.11. Winter Considerations

Will there be construction activities happening between Oct 15 – Apr 15? Describe additional measures that will be used if construction activities will be continuing during this timeframe.

1.9. Contact Information

1.9.1. On-Site Plan Coordinator: identification, basic qualifications, and contact number

Identify who this person will be and provide their basic qualifications and contact information.

This information will be reviewed and will factor into whether the EPSC plan will be accepted. This section must demonstrate that the individual:

- *will be onsite on a daily,*
- *will have the authority to halt construction, and*
- *is capable of ensuring the project will be constructed in accordance with the Plan and the terms of the project permits.*

1.9.2. Plan Preparer

Provide the name, basic qualifications, and contact information for the plan preparer.

The Contract Plan Preparer shall be familiar with the Vermont Standards and Specifications for Erosion Prevention and Sediment Control, relative sections of the Vermont Agency of Transportation Standards Specifications for Construction and Contract Special Provisions, and project specific Permits.

1.10. Schedule

The Construction schedule showing timelines for EPSC measure implementation shall be provided.

2. EPSC PLAN SHEETS

Develop EPSC Plan Sheet(s) to visually depict the EPSC measures that were described in the narrative. The Existing Conditions, Layout, or EPSC Sheet(s) provided in the Contract Plan Sheets may be used as a base for the EPSC Plan Sheets. If necessary to convey the sequential nature of construction activities and associated EPSC implementation, several plans sheets showing successive site conditions are recommended. At a minimum, the following shall be shown on Plan Sheet(s):

Location of EPSC Measures

Off Site Activities (may be on separate plan sheet, if not directly adjacent to project site)
Show the location of and EPSC measures for activities outside the contract construction limits including topsoil stockpiles, staging and equipment storage areas, refueling/maintenance areas, access and haul roads, and disposal areas for excess soil and stumps. Locations maps for off- site areas shall be included.

General Information
Show north arrow, scale or at a minimum distance to resources, drainage and stream/river flow paths, and slope indicators (direction and grade).

3. EPSC DETAILS

Provide Detail Drawings for additional EPSC measures that were not included in the Contract Plans

4. INSPECTION FORMS

Submit the form or forms that will be used to document EPSC Monitoring and Inspection of EPSC measures. The Contractor may submit a copy of the Agency generated inspection form (found here: EPSCPlanInspectionReport) or create another and submit it for acceptance.

5. UPDATES

Changing conditions in the field may require updates to the EPSC Plan. The Contractor shall make record of the necessary changes by providing updated narrative and/or adding notes to the EPSC Plan Sheets in accordance with the guidelines given above.