

## STANDARD E&S CONTROL PLAN TECHNICAL REVIEW CHECKLIST

Project: Core5 at Route 100

NPDES/Project No. PAD390269

Project Location: Lowhill Township, Lehigh County

Date: 8/10/23

Check-off: c = Complies, d = Deficient, na = Not applicable

Item Location: D = E&S Drawings, N = E&S Narrative, D&N = Drawings and Narrative

**“The E&S Plan shall be prepared by a person trained and experienced in E&S control methods and techniques applicable to the size and scope of the project being designed”**

Name c \_\_\_\_\_ Address \_\_\_\_\_ Telephone No. \_\_\_\_\_ D&N

**“The existing topographic features of the project site and the immediate surrounding area”**

<u>c</u> _____	Legible mapping	D
<u>c</u> _____	Existing contours	D
<u>d</u> _____	Type of cover	D
<u>c</u> _____	Existing improvements, i.e. roads, buildings, utilities, etc.	D
<u>c</u> _____	Sufficient surrounding area	D
<u>c</u> _____	Complete mapping symbols legend and north arrow	D
<u>c</u> _____	Location map, i.e. USGS	D or N

**“The types, depth, slope, locations and limitations of the soils”**

<u>c</u> _____	Types, slopes, and locations of soil types	D
<u>c</u> _____	Soil type use limitations and resolutions	N
<u>c</u> _____	Hydric soils	N

**“The characteristics of the earth disturbance activity, including the past, present, and proposed land uses and the proposed alteration to the project site”**

<u>c</u> _____	Proposed NPDES boundary and limits of construction	D
<u>c</u> _____	Proposed contours/grades	D
<u>c</u> _____	Proposed waterways and stormwater management facilities	D
<u>c</u> _____	Proposed improvements, i.e., roads, buildings, utilities, etc.	D
<u>c</u> _____	Past, present and proposed land uses	N

**“The volume and rate of runoff from the project area and its upstream watershed area”**

<u>c</u> _____	Maximum during construction drainage areas	D
<u>d</u> _____	Offsite drainage area(s) on USGS quadrangle map	N
<u>d</u> _____	Discharge analysis provided for non-surface water discharges	N

**“The location of all surface waters of this Commonwealth that may receive runoff within or from the project site and their classification under Chapter 93”**

<u>c</u> _____	Existing streams, wetlands, floodway, etc.	D
<u>d-change</u> _____	Receiving watercourses	D
<u>d</u> _____	Chapter 93 classification of streams or other waterbodies	N

**“A narrative description of the location and type of perimeter and onsite BMPs used before, during and after the earth disturbance activity”**

                   c                    Description provided in the narrative N

**“A sequence of BMP installation and removal in relation to the scheduling of earth disturbance activities, prior to, during and after earth disturbance activities that ensure the proper functioning of all BMPs”**

                   d-updates                    Complete and site specific sequence of BMP installation D  
                   c                    Activities planned to limit exposed areas D  
                   c                    Removal of temporary BMPs D

**“Supporting calculations and measurements” and “Plan Drawings”**

Stabilized Construction Entrance

                   c                    Locations                    c                    Complete Details D

Silt Fencing

                   Locations                    Slope Length                    Complete Details D

Channels

                   d                    Locations                    Drainage Areas                    D

                   c                    Contours and Grades                    c                    Complete details D

                   na                    Peak flow calculations                    na                    Capacity and freeboard calculations N

                   na                    Protective lining calculations N

Sediment Basins

                   c                    Locations                    c                    Contours                    c                    Drainage Areas D

                   c                    Complete berm & outlet details                    c                    Cleanout information D&N

                   d                    Discharge to surface waters or approved alternative D

                   c                    Structurally sound D&N

                   d                    Capacity calculations                    d                    Discharge calculations N

                   d                    Dewatering calculations N

Sediment Traps

                   Locations                    Contours                    Drainage Areas D

                   Complete berm & outlet details                    Cleanout information D&N

                   Discharge to surface waters or approved alternative D

                   Capacity information                    Discharge calculations N

Outlet Protection

                   c                    Locations                    c                    Complete Details D

                   c                    Design Calculations N

Inlet Protection

                   Locations                    Complete Details D

Other BMPs (specify)                   

                   Locations                    Complete Details D

                   Design Calculations N

Temporary Stabilization

	Seed	Lime	Fertilizer	Mulch	Others	
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Types	<u>                  </u> c <u>                  </u>	<u>                  </u> c <u>                  </u>	<u>                  </u> c <u>                  </u>	<u>                  </u> c <u>                  </u>	<u>                  </u>	D
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Rates	<u>                  </u> c <u>                  </u>	<u>                  </u> c <u>                  </u>	<u>                  </u> c <u>                  </u>	<u>                  </u> c <u>                  </u>	<u>                  </u>	D
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Permanent Stabilization

                   c                    Topsoil replacement D

	Seed	Lime	Fertilizer	Mulch	Others	
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Types	<u>                  </u> c <u>                  </u>	<u>                  </u> c <u>                  </u>	<u>                  </u> c <u>                  </u>	<u>                  </u> c <u>                  </u>	<u>                  </u>	D
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Rates	<u>                  </u> c <u>                  </u>	<u>                  </u> c <u>                  </u>	<u>                  </u> c <u>                  </u>	<u>                  </u> c <u>                  </u>	<u>                  </u>	D
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**“A maintenance program, which provides for the operation and maintenance of BMPs and the inspection of BMPs on a weekly basis and after each stormwater event, including the repair or replacement of BMPs to ensure effective and efficient operation. The program must provide for completion of a written report documenting each inspection and all BMP repair, or replacement and maintenance activities”**

- \_\_\_\_\_ c Inspection schedule D
- \_\_\_\_\_ c Maximum sediment storage elevation/level in BMPs D
- \_\_\_\_\_ c Time frames for completing specific maintenance and repairs for each type of BMP proposed. D
- \_\_\_\_\_ c Site stabilization repair parameters and directions D
- \_\_\_\_\_ c Disposal directions for sediment removed from BMPs D
- \_\_\_\_\_ c Note provided requiring written documentation of inspection & repair/replacement of BMPs by contractor D

**“Procedures which ensure that the proper measures for the recycling or disposal of materials associated with or from the project site will be undertaken in accordance with this title”**

- \_\_\_\_\_ c Project construction wastes are identified N
- \_\_\_\_\_ c Directions for recycling/disposal of construction wastes D
- \_\_\_\_\_ c Soil/rock disposal areas provided with BMPs D

**“Identification of naturally occurring geologic formations or soil conditions that may have the potential to cause pollution during earth disturbance activities and include BMPs to avoid or minimize potential pollution and its impacts from the formations”**

- \_\_\_\_\_ c Potential for geologic or soil conditions to cause pollution during construction is addressed N
- \_\_\_\_\_ c Instructions for proper handling and/or disposal of all materials that could cause pollution are provided D
- \_\_\_\_\_ c Typical details are provided for proper handling and/or disposal of all such materials D
- \_\_\_\_\_ c The locations of all such materials are clearly shown on the plan maps D

**“Identification of the potential thermal impacts to surface waters of this Commonwealth from the earth disturbance activity including BMPs to avoid, minimize or mitigate potential pollution from thermal impacts”**

- \_\_\_\_\_ c Analysis of how thermal impacts associated with the project will be avoided is provided N
- \_\_\_\_\_ c If impacts cannot be avoided, impacts are minimized and BMPs provided to mitigate impacts and protect and maintain surface water quality D&N

**“The E&S Plan shall be planned, designed, and implemented to be consistent with the PCSM Plan under 25 Pa. Code § 102.8 (relating to PCSM requirements). Unless otherwise approved by the Department, the E&S Plan must be separate from the PCSM Plan and labeled “E&S” or “Erosion and Sediment Control Plan” and be the final plan for construction”**

- \_\_\_\_\_ c Overall plan supports the managing of stormwater for erosion and sediment control during earth disturbance activities D&N
- \_\_\_\_\_ c BMPs are compatible with, and can be integrated into, structural and non-structural PCSM practices D&N

**“Identification of existing and proposed riparian forest buffers”**

- \_\_\_\_\_ d Existing and/or proposed buffers are shown on the plan drawings. D