



Transcontinental Gas Pipe Line Company, LLC

Section 2-7 Standard E&S Plan Technical Review Checklist

Regional Energy Access Expansion Project

April 2021
(Revised July 2021)

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ATTACHMENT 2.7.1
REGIONAL ENERGY LATERAL

STANDARD E&S CONTROL PLAN TECHNICAL REVIEW CHECKLIST
Regional Energy Lateral

Project: Regional Energy Access Expansion Project

Project Name: Regional Energy Access Expansion Project - Regional Energy Lateral

Date: 04/05/2021

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

Check that the following items are completed in the E&S Plan. If an item is not applicable write N/A.

“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 Kevin C. Clark Address 2525 Green Tech Drive, Suite D, State College, PA-16803
 Telephone No. (814)-238-2060

D&N

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

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

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

<u>D&N</u>	Types, slopes, and locations of soil types	D
<u>D&N</u>	Soil type use limitations and resolutions	N
<u>D&N</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>D</u>	Proposed boundary and limits of construction	D
<u>D</u>	Proposed contours/grades	D
<u>D</u>	Proposed waterways and stormwater management facilities	D
<u>D</u>	Proposed improvements, i.e., roads, buildings, utilities, etc.	D
<u>N</u>	Past, present and proposed land uses	N

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

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

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

<u>D</u>	Existing streams, wetlands, floodway, etc.	D
<u>D&N</u>	Receiving watercourses	D
<u>D&N</u>	Chapter 93 classification of streams or other water bodies	N

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

N _____ 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 _____ Complete and site specific sequence of BMP installation D

D _____ Activities planned to limit exposed areas D

D _____ Removal of temporary BMPs D

“Supporting calculations and measurements” and “Plan Drawings”

Stabilized Construction Entrance

D _____ Locations D _____ Complete Details D

Silt Fencing

_____ Locations _____ Slope Length _____ Complete Details D

Channels

D _____ Locations N _____ Drainage Areas D

D _____ Contours and Grades D _____ Complete details D

N _____ Peak flow calculations N _____ Capacity and freeboard calculations N

N _____ Protective lining calculations N

Sediment Basins

_____ Locations _____ Contours _____ Drainage Areas D

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

_____ Discharge to surface waters or approved alternative D

_____ Structurally sound D&N

_____ Capacity calculations _____ Discharge calculations N

_____ 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

D _____ Locations D _____ Complete Details D

N _____ Design Calculations N

Inlet Protection

_____ Locations _____ Complete Details D

Other BMPs (specify) Clean Water Crossing, Compost Filter Socks, trench plugs, water bars

D _____ Locations D _____ Complete Details D

N _____ Design Calculations N

Temporary Stabilization

	Seed	Lime	Fertilizer	Mulch	Others	
Types	<u>D</u> _____	<u>D</u> _____	<u>D</u> _____	<u>D</u> _____	_____	D
Rates	<u>D</u> _____	<u>D</u> _____	<u>D</u> _____	<u>D</u> _____	_____	D

Permanent Stabilization

D _____	Topsoil replacement					D
	Seed	Lime	Fertilizer	Mulch	Others	
Types	D _____	D _____	D _____	D _____	_____	D
Rates	D _____	D _____	D _____	D _____	_____	D

“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”

D _____	Inspection schedule					D
D&N _____	Maximum sediment storage elevation/level in BMPs					D
D _____	Time frames for completing specific maintenance and repairs for each type of BMP					
	Proposed					D
D _____	Site stabilization repair parameters and directions					D
D _____	Disposal directions for sediment removed from BMPs					D
D _____	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”

N _____	Project construction wastes are identified					N
D _____	Directions for recycling/disposal of construction wastes					D
N/A _____	Soil/rock disposal areas provided with BMPs					D

“Identification of natural occurring geologic formations or soil conditions that may provide hazards to the project or surrounding environment or have the potential to cause or contribute to pollution during earth disturbance activities and include BMPs to avoid or minimize potential pollution and its impacts from the formations”

N _____	Potential for geologic or soil conditions to cause pollution during construction is addressed					N
D _____	Instructions for proper handling and/or disposal of all materials which could cause pollution are provided					D
D _____	Typical details are provided for proper handling and/or disposal of all such materials					D
N/A _____	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”

N _____	Analysis of how thermal impacts associated with the project will be avoided is provided					N
D&N _____	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 § 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”

D&N _____	Overall plan supports the managing of stormwater for erosion and sediment control during earth disturbance activities					D&N
D&N _____	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
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ATTACHMENT 2.7.2
EFFORT LOOP

**STANDARD E&S CONTROL PLAN TECHNICAL REVIEW CHECKLIST
Effort Loop**

Project: Regional Energy Access Expansion Project

Project Name: Regional Energy Access Expansion Project - Effort Loop

Date: 04/05/2021

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

Check that the following items are completed in the E&S Plan. If an item is not applicable write N/A.

“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 Kevin C. Clark Address 2525 Green Tech Drive, Suite D, State College, PA-16803

Telephone No. (814)-238-2060 D&N

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

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

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

<u>D&N</u>	Types, slopes, and locations of soil types	D
<u>D&N</u>	Soil type use limitations and resolutions	N
<u>D&N</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>D</u>	Proposed boundary and limits of construction	D
<u>D</u>	Proposed contours/grades	D
<u>D</u>	Proposed waterways and stormwater management facilities	D
<u>D</u>	Proposed improvements, i.e., roads, buildings, utilities, etc.	D
<u>N</u>	Past, present and proposed land uses	N

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

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

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

<u>D</u>	Existing streams, wetlands, floodway, etc.	D
<u>D&N</u>	Receiving watercourses	D
<u>D&N</u>	Chapter 93 classification of streams or other water bodies	N

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

N 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 Complete and site specific sequence of BMP installation D

D Activities planned to limit exposed areas D

D Removal of temporary BMPs D

“Supporting calculations and measurements” and “Plan Drawings”

Stabilized Construction Entrance

D Locations D Complete Details D

Silt Fencing

_____ Locations _____ Slope Length _____ Complete Details D

Channels

D Locations N Drainage Areas D

D Contours and Grades D Complete details D

N Peak flow calculations N Capacity and freeboard calculations N

N Protective lining calculations N

Sediment Basins

_____ Locations _____ Contours _____ Drainage Areas D

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

_____ Discharge to surface waters or approved alternative D

_____ Structurally sound D&N

_____ Capacity calculations _____ Discharge calculations N

_____ Dewatering calculations N

Sediment Traps

D Locations D Contours N Drainage Areas D

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

N Discharge to surface waters or approved alternative D

N Capacity information N Discharge calculations N

Outlet Protection

D Locations D Complete Details D

N Design Calculations N

Inlet Protection

_____ Locations _____ Complete Details D

Other BMPs (specify) Clean Water Crossing, Compost Filter Socks, trench plugs, water bars

D Locations D Complete Details D

N Design Calculations N

Temporary Stabilization

	Seed	Lime	Fertilizer	Mulch	Others	
Types	<u>D</u>	<u>D</u>	<u>D</u>	<u>D</u>	_____	D
Rates	<u>D</u>	<u>D</u>	<u>D</u>	<u>D</u>	_____	D

Permanent Stabilization

D _____	Topsoil replacement					D
	Seed	Lime	Fertilizer	Mulch	Others	
Types	D _____	D _____	D _____	D _____	_____	D
Rates	D _____	D _____	D _____	D _____	_____	D

“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”

D _____	Inspection schedule					D
D&N _____	Maximum sediment storage elevation/level in BMPs					D
D _____	Time frames for completing specific maintenance and repairs for each type of BMP					
	Proposed					D
D _____	Site stabilization repair parameters and directions					D
D _____	Disposal directions for sediment removed from BMPs					D
D _____	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”

N _____	Project construction wastes are identified					N
D _____	Directions for recycling/disposal of construction wastes					D
N/A _____	Soil/rock disposal areas provided with BMPs					D

“Identification of natural occurring geologic formations or soil conditions that may provide hazards to the project or surrounding environment or have the potential to cause or contribute to pollution during earth disturbance activities and include BMPs to avoid or minimize potential pollution and its impacts from the formations”

N _____	Potential for geologic or soil conditions to cause pollution during construction is addressed					N
D _____	Instructions for proper handling and/or disposal of all materials which could cause pollution are provided					D
D _____	Typical details are provided for proper handling and/or disposal of all such materials					D
N/A _____	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”

N _____	Analysis of how thermal impacts associated with the project will be avoided is provided					N
D&N _____	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 § 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”

D&N _____	Overall plan supports the managing of stormwater for erosion and sediment control during earth disturbance activities					D&N
D&N _____	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
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ATTACHMENT 2.7.3
COMPRESSOR STATION 200

**STANDARD E&S CONTROL PLAN TECHNICAL REVIEW CHECKLIST
Compressor Station 200**

Project: Regional Energy Access Expansion Project

Project Name: Regional Energy Access Expansion Project - Compressor Station 200

Date: 04/05/2021

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

Check that the following items are completed in the E&S Plan. If an item is not applicable write N/A.

“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 Kevin C. Clark Address 2525 Green Tech Drive, Suite D, State College, PA-16803
Telephone No. (814)-238-2060

D&N

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

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

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

<u>D&N</u>	Types, slopes, and locations of soil types	D
<u>D&N</u>	Soil type use limitations and resolutions	N
<u>D&N</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>D</u>	Proposed boundary and limits of construction	D
<u>D</u>	Proposed contours/grades	D
<u>D</u>	Proposed waterways and stormwater management facilities	D
<u>D</u>	Proposed improvements, i.e., roads, buildings, utilities, etc.	D
<u>N</u>	Past, present and proposed land uses	N

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

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

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

<u>D</u>	Existing streams, wetlands, floodway, etc.	D
<u>D&N</u>	Receiving watercourses	D
<u>D&N</u>	Chapter 93 classification of streams or other water bodies	N

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

N 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 Complete and site specific sequence of BMP installation D

D Activities planned to limit exposed areas D

D Removal of temporary BMPs D

“Supporting calculations and measurements” and “Plan Drawings”

Stabilized Construction Entrance

D Locations D Complete Details D

Silt Fencing

_____ Locations _____ Slope Length _____ Complete Details D

Channels

_____ Locations _____ Drainage Areas D

_____ Contours and Grades _____ Complete details D

_____ Peak flow calculations _____ Capacity and freeboard calculations N

_____ Protective lining calculations N

Sediment Basins

_____ Locations _____ Contours _____ Drainage Areas D

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

_____ Discharge to surface waters or approved alternative D

_____ Structurally sound D&N

_____ Capacity calculations _____ Discharge calculations N

_____ 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

_____ Locations _____ Complete Details D

_____ Design Calculations N

Inlet Protection

D Locations D Complete Details D

Other BMPs (specify) Compost Filter Socks

D Locations D Complete Details D

N Design Calculations N

Temporary Stabilization

	Seed	Lime	Fertilizer	Mulch	Others	
Types	<u>D</u>	<u>D</u>	<u>D</u>	<u>D</u>	_____	D
Rates	<u>D</u>	<u>D</u>	<u>D</u>	<u>D</u>	_____	D

Permanent Stabilization

D _____	Topsoil replacement					D
	Seed	Lime	Fertilizer	Mulch	Others	
Types	D _____	D _____	D _____	D _____	_____	D
Rates	D _____	D _____	D _____	D _____	_____	D

“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”

D _____	Inspection schedule					D
D&N _____	Maximum sediment storage elevation/level in BMPs					D
D _____	Time frames for completing specific maintenance and repairs for each type of BMP					
	Proposed					D
D _____	Site stabilization repair parameters and directions					D
D _____	Disposal directions for sediment removed from BMPs					D
D _____	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”

N _____	Project construction wastes are identified					N
D _____	Directions for recycling/disposal of construction wastes					D
N/A _____	Soil/rock disposal areas provided with BMPs					D

“Identification of natural occurring geologic formations or soil conditions that may provide hazards to the project or surrounding environment or have the potential to cause or contribute to pollution during earth disturbance activities and include BMPs to avoid or minimize potential pollution and its impacts from the formations”

N _____	Potential for geologic or soil conditions to cause pollution during construction is addressed					N
D _____	Instructions for proper handling and/or disposal of all materials which could cause pollution are provided					D
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“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”

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

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D&N _____	Overall plan supports the managing of stormwater for erosion and sediment control during earth disturbance activities					D&N
D&N _____	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
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ATTACHMENT 2.7.4
COMPRESSOR STATION 515

STANDARD E&S CONTROL PLAN TECHNICAL REVIEW CHECKLIST
Compressor Station 515

Project: Regional Energy Access Expansion Project

Project Name: Regional Energy Access Expansion Project - Compressor Station 515

Date: 04/05/2021

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

Check that the following items are completed in the E&S Plan. If an item is not applicable write N/A.

“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 Kevin C. Clark Address 2525 Green Tech Drive, Suite D, State College, PA-16803
 Telephone No. (814)-238-2060

D&N

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

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

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

<u>D&N</u>	Types, slopes, and locations of soil types	D
<u>D&N</u>	Soil type use limitations and resolutions	N
<u>D&N</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>D</u>	Proposed boundary and limits of construction	D
<u>D</u>	Proposed contours/grades	D
<u>D</u>	Proposed waterways and stormwater management facilities	D
<u>D</u>	Proposed improvements, i.e., roads, buildings, utilities, etc.	D
<u>N</u>	Past, present and proposed land uses	N

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

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

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

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

N 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 Complete and site specific sequence of BMP installation D

D Activities planned to limit exposed areas D

D Removal of temporary BMPs D

“Supporting calculations and measurements” and “Plan Drawings”

Stabilized Construction Entrance

D Locations D Complete Details D

Silt Fencing

_____ Locations _____ Slope Length _____ Complete Details D

Channels

_____ Locations _____ Drainage Areas D

_____ Contours and Grades _____ Complete details D

_____ Peak flow calculations _____ Capacity and freeboard calculations N

_____ Protective lining calculations N

Sediment Basins

_____ Locations _____ Contours _____ Drainage Areas D

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

_____ Discharge to surface waters or approved alternative D

_____ Structurally sound D&N

_____ Capacity calculations _____ Discharge calculations N

_____ 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

_____ Locations _____ Complete Details D

_____ Design Calculations N

Inlet Protection

D Locations D Complete Details D

Other BMPs (specify) Compost Filter Socks

D Locations D Complete Details D

N Design Calculations N

Temporary Stabilization

	Seed	Lime	Fertilizer	Mulch	Others	
Types	<u>D</u>	<u>D</u>	<u>D</u>	<u>D</u>	_____	D
Rates	<u>D</u>	<u>D</u>	<u>D</u>	<u>D</u>	_____	D

Permanent Stabilization

D _____	Topsoil replacement					D
	Seed	Lime	Fertilizer	Mulch	Others	
Types	D _____	D _____	D _____	D _____	_____	D
Rates	D _____	D _____	D _____	D _____	_____	D

“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”

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D&N _____	Maximum sediment storage elevation/level in BMPs					D
D _____	Time frames for completing specific maintenance and repairs for each type of BMP					
	Proposed					D
D _____	Site stabilization repair parameters and directions					D
D _____	Disposal directions for sediment removed from BMPs					D
D _____	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”

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D _____	Directions for recycling/disposal of construction wastes					D
N/A _____	Soil/rock disposal areas provided with BMPs					D

“Identification of natural occurring geologic formations or soil conditions that may provide hazards to the project or surrounding environment or have the potential to cause or contribute to pollution during earth disturbance activities and include BMPs to avoid or minimize potential pollution and its impacts from the formations”

N _____	Potential for geologic or soil conditions to cause pollution during construction is addressed					N
D _____	Instructions for proper handling and/or disposal of all materials which could cause pollution are provided					D
D _____	Typical details are provided for proper handling and/or disposal of all such materials					D
N/A _____	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”

N _____	Analysis of how thermal impacts associated with the project will be avoided is provided					N
D&N _____	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 § 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”

D&N _____	Overall plan supports the managing of stormwater for erosion and sediment control during earth disturbance activities					D&N
D&N _____	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
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ATTACHMENT 2.7.5
DELAWARE RIVER REGULATOR

**STANDARD E&S CONTROL PLAN TECHNICAL REVIEW CHECKLIST
Delaware River Regulator**

Project: Regional Energy Access Expansion Project

Project Name: Regional Energy Access Expansion Project - Delaware River Regulator

Date: 04/05/2021

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

Check that the following items are completed in the E&S Plan. If an item is not applicable write N/A.

“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 Kevin C. Clark Address 2525 Green Tech Drive, Suite D, State College, PA-16803
Telephone No. (814)-238-2060

D&N

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

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

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

<u>D&N</u>	Types, slopes, and locations of soil types	D
<u>D&N</u>	Soil type use limitations and resolutions	N
<u>D&N</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>D</u>	Proposed boundary and limits of construction	D
<u>D</u>	Proposed contours/grades	D
<u>D</u>	Proposed waterways and stormwater management facilities	D
<u>D</u>	Proposed improvements, i.e., roads, buildings, utilities, etc.	D
<u>N</u>	Past, present and proposed land uses	N

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

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

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

<u>D</u>	Existing streams, wetlands, floodway, etc.	D
<u>D&N</u>	Receiving watercourses	D
<u>D&N</u>	Chapter 93 classification of streams or other water bodies	N

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

N _____ 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 _____ Complete and site specific sequence of BMP installation D

D _____ Activities planned to limit exposed areas D

D _____ Removal of temporary BMPs D

“Supporting calculations and measurements” and “Plan Drawings”

Stabilized Construction Entrance

D _____ Locations D _____ Complete Details D

Silt Fencing

_____ Locations _____ Slope Length _____ Complete Details D

Channels

_____ Locations _____ Drainage Areas D

_____ Contours and Grades _____ Complete details D

_____ Peak flow calculations _____ Capacity and freeboard calculations N

_____ Protective lining calculations N

Sediment Basins

_____ Locations _____ Contours _____ Drainage Areas D

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

_____ Discharge to surface waters or approved alternative D

_____ Structurally sound D&N

_____ Capacity calculations _____ Discharge calculations N

_____ 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

_____ Locations _____ Complete Details D

_____ Design Calculations N

Inlet Protection

_____ Locations _____ Complete Details D

Other BMPs (specify) Compost Filter Socks

D _____ Locations D _____ Complete Details D

N _____ Design Calculations N

Temporary Stabilization

	Seed	Lime	Fertilizer	Mulch	Others	
Types	D _____	D _____	D _____	D _____	_____	D
Rates	D _____	D _____	D _____	D _____	_____	D

Permanent Stabilization

D _____	Topsoil replacement					D
	Seed	Lime	Fertilizer	Mulch	Others	
Types	D _____	D _____	D _____	D _____	_____	D
Rates	D _____	D _____	D _____	D _____	_____	D

“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”

D _____	Inspection schedule					D
D&N _____	Maximum sediment storage elevation/level in BMPs					D
D _____	Time frames for completing specific maintenance and repairs for each type of BMP					
	Proposed					D
D _____	Site stabilization repair parameters and directions					D
D _____	Disposal directions for sediment removed from BMPs					D
D _____	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”

N _____	Project construction wastes are identified					N
D _____	Directions for recycling/disposal of construction wastes					D
N/A _____	Soil/rock disposal areas provided with BMPs					D

“Identification of natural occurring geologic formations or soil conditions that may provide hazards to the project or surrounding environment or have the potential to cause or contribute to pollution during earth disturbance activities and include BMPs to avoid or minimize potential pollution and its impacts from the formations”

N _____	Potential for geologic or soil conditions to cause pollution during construction is addressed					N
D _____	Instructions for proper handling and/or disposal of all materials which could cause pollution are provided					D
D _____	Typical details are provided for proper handling and/or disposal of all such materials					D
N/A _____	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”

N _____	Analysis of how thermal impacts associated with the project will be avoided is provided					N
D&N _____	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 § 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”

N/A _____	Overall plan supports the managing of stormwater for erosion and sediment control during earth disturbance activities					D&N
N/A _____	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
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ATTACHMENT 2.7.6
MAINLINE A REGULATOR

**STANDARD E&S CONTROL PLAN TECHNICAL REVIEW CHECKLIST
Mainline A Regulator**

Project: Regional Energy Access Expansion Project

Project Name: Regional Energy Access Expansion Project - Mainline A Regulator

Date: 04/05/2021

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

Check that the following items are completed in the E&S Plan. If an item is not applicable write N/A.

“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 Kevin C. Clark Address 2525 Green Tech Drive, Suite D, State College, PA-16803
Telephone No. (814)-238-2060

D&N

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

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

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

<u>D&N</u>	Types, slopes, and locations of soil types	D
<u>D&N</u>	Soil type use limitations and resolutions	N
<u>D&N</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>D</u>	Proposed boundary and limits of construction	D
<u>D</u>	Proposed contours/grades	D
<u>D</u>	Proposed waterways and stormwater management facilities	D
<u>D</u>	Proposed improvements, i.e., roads, buildings, utilities, etc.	D
<u>N</u>	Past, present and proposed land uses	N

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

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

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

<u>D</u>	Existing streams, wetlands, floodway, etc.	D
<u>D&N</u>	Receiving watercourses	D
<u>D&N</u>	Chapter 93 classification of streams or other water bodies	N

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

N _____ 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 _____ Complete and site specific sequence of BMP installation D

D _____ Activities planned to limit exposed areas D

D _____ Removal of temporary BMPs D

“Supporting calculations and measurements” and “Plan Drawings”

Stabilized Construction Entrance

D _____ Locations D _____ Complete Details D

Silt Fencing

_____ Locations _____ Slope Length _____ Complete Details D

Channels

_____ Locations _____ Drainage Areas D

_____ Contours and Grades _____ Complete details D

_____ Peak flow calculations _____ Capacity and freeboard calculations N

_____ Protective lining calculations N

Sediment Basins

_____ Locations _____ Contours _____ Drainage Areas D

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

_____ Discharge to surface waters or approved alternative D

_____ Structurally sound D&N

_____ Capacity calculations _____ Discharge calculations N

_____ 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

_____ Locations _____ Complete Details D

_____ Design Calculations N

Inlet Protection

_____ Locations _____ Complete Details D

Other BMPs (specify) Compost Filter Socks

D _____ Locations D _____ Complete Details D

N _____ Design Calculations N

Temporary Stabilization

	Seed	Lime	Fertilizer	Mulch	Others	
Types	D _____	D _____	D _____	D _____	_____	D
Rates	D _____	D _____	D _____	D _____	_____	D

Permanent Stabilization

D _____	Topsoil replacement					D
	Seed	Lime	Fertilizer	Mulch	Others	
Types	D _____	D _____	D _____	D _____	_____	D
Rates	D _____	D _____	D _____	D _____	_____	D

“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”

D _____	Inspection schedule					D
D&N _____	Maximum sediment storage elevation/level in BMPs					D
D _____	Time frames for completing specific maintenance and repairs for each type of BMP					
	Proposed					D
D _____	Site stabilization repair parameters and directions					D
D _____	Disposal directions for sediment removed from BMPs					D
D _____	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”

N _____	Project construction wastes are identified					N
D _____	Directions for recycling/disposal of construction wastes					D
N/A _____	Soil/rock disposal areas provided with BMPs					D

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N _____	Potential for geologic or soil conditions to cause pollution during construction is addressed					N
D _____	Instructions for proper handling and/or disposal of all materials which could cause pollution are provided					D
D _____	Typical details are provided for proper handling and/or disposal of all such materials					D
N/A _____	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”

N _____	Analysis of how thermal impacts associated with the project will be avoided is provided					N
D&N _____	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 § 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”

N/A _____	Overall plan supports the managing of stormwater for erosion and sediment control during earth disturbance activities					D&N
N/A _____	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
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