



COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
 OFFICE OF WATER PROGRAMS
 OFFICE OF OIL AND GAS MANAGEMENT

OFFICIAL USE ONLY	
ID #	_____
Date Received	_____
AUTH	_____
SITE	_____
CLNT	_____
APS	_____
Fee	_____
Check No.	_____
Check Date	_____

NOTICE OF INTENT (NOI) FOR COVERAGE UNDER THE EROSION AND SEDIMENT CONTROL GENERAL PERMIT (ESCGP-3) FOR EARTH DISTURBANCE ASSOCIATED WITH OIL AND GAS EXPLORATION, PRODUCTION, PROCESSING, OR TREATMENT OPERATIONS OR TRANSMISSION FACILITIES

READ THE INSTRUCTIONS PROVIDED IN THIS PERMIT APPLICATION PACKAGE BEFORE COMPLETING THIS FORM. PLEASE PRINT OR TYPE INFORMATION IN BLACK OR BLUE INK.

SECTION A. APPLICATION TYPE

Check one:

NEW RENEWAL MAJOR MODIFICATIONS (Provide ESCGP number)

PHASED (check only if applicable; *note: Most projects are not submitted as phased projects*)

Check one: EXPEDITED STANDARD

If an Expedited Review Process being requested, be advised that the Expedited Review is not available for all projects. Refer to Section D - Expedited Review Process of the ESCGP-3 NOI Instructions to determine if the project is eligible.

SECTION B. CLIENT INFORMATION

Applicant's Last Name (If applicable)	First Name	MI	Telephone No.
Organization Name or Registered Fictitious Name PennEast Pipeline Company, LLC			Telephone No. 610-373-7999
DEP Client ID No.			
Headquarters Mailing Address 1 Meridian Boulevard, Suite 2C01	City Wyomissing	State PA	ZIP Code 19610
Email Address ddalessandro@ugies.com			
Co-Applicant's Last Name (If applicable)	First Name	MI	Telephone No.
Organization Name or Registered Fictitious Name			Telephone No.
Address	City	State	ZIP Code
Email Address			

SECTION C. SITE INFORMATION

Is there an existing ESCGP associated with this site? Yes No If yes, Permit No. _____

Has a well permit application been submitted for this site? Yes No If yes, Permit No. _____

Does this site have a 911 address? Yes No If yes, provide site location address.

Site Name
 PennEast Pipeline Project

Site Location See Section 1-4	Site No. (if another permit has been issued for the site)
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Site Location – City See Section 1-4	State	ZIP Code
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Detailed Written Directions to Site

From Wilkes-Barre to the Start of PennEast Pipeline: head north on PA-309. At the intersection with State Route 415, bear right to continue on State Route 309/Tunkhannock Highway. After 1 mile, turn right on Upper Demunds Road. Immediately turn right on Hildebrandt Road. After 0.7 mile, turn right onto an unnamed road (Access Road No.1) and follow 0.25 mile to the Wyoming Interconnect and the start of the PennEast Mainline.

From Bethlehem to the End of PennEast Pipeline in Pennsylvania: head south on PA-378. Turn left onto Black River Road. Turn right onto Bingen Road after 1.3 miles. Turn left onto Apples Church Road after 1.9 miles. Turn right onto PA-412 South after 0.4 miles. Turn left onto PA-212 East/PA-412 South after 2.6 miles. Turn left onto PA-611 North after 6.3 miles. After 0.4 miles, arrive at the end of the proposed PennEast Pipeline centerline in Pennsylvania.

Primary Location	County Luzerne, Carbon, Monroe, Northampton and Bucks	Municipality See Section 1-4	City <input type="checkbox"/>	Boro <input checked="" type="checkbox"/>	Twp. <input checked="" type="checkbox"/>
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SECTION D. EXPEDITED REVIEW

I. Expedited Review Eligibility

1. Is any part of the project in the watershed of a surface water with an existing or designated use of exceptional value or high quality pursuant to Chapter 93 (relating to water quality standards), in an exceptional value wetland in accordance with 25 Pa. Code § 105.17, or in the watershed of an impaired surface water where the cause of the impairment is identified as siltation?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2. Will the project in which the well pad will be constructed be in or on a floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3. Is any earth disturbance located or proposed to be located on land known to be contaminated by the release of regulated substances as defined in Section 103 of Act 2, 35 P.S. § 6026.103?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
4. Will naturally occurring geologic formations or soil conditions provide hazards to the project or surrounding environment or have the potential to cause or contribute to pollution when disturbed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5. Do any unresolved non-compliance issues exist with the applicant or the facility?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
6. Is the project a transmission project?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

If yes to any of the above questions the project is not eligible for Expedited Review; If the project is eligible for Expedited Review, all the following items must be completed.

II. Expedited Review Process

1. Is the technically and administratively complete and accurate NOI package prepared and certified by a licensed professional?	<input type="checkbox"/> Yes <input type="checkbox"/> No
2. Are E&S and PCSM/Site Restoration Plan drawings and narrative prepared and sealed by a licensed professional? <i>(Include interim restoration details when needed)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No
3. Include a Resource Delineation Report and answer the following questions: (If the answer to question a. is "Yes" then skip to #4. If the answer to a. is "No" the applicant must answer "Yes" to at least one of the questions, b. through d. to be eligible for expedited review.)	
a. Were all wetland resources delineated during the growing season?	<input type="checkbox"/> Yes <input type="checkbox"/> No
b. If not during the growing season, was a follow-up visit conducted during the growing season to verify/adjust boundaries and look for potentially missed resources?	<input type="checkbox"/> Yes <input type="checkbox"/> No
c. Was a quality assurance field review conducted at a later date by an independent qualified wetland professional to verify boundaries and look for potentially missed resources? (If yes, attach Quality Assurance Field Review Report)	<input type="checkbox"/> Yes <input type="checkbox"/> No
d. Was a Jurisdictional Determination (JD) or Preliminary JD conducted by the US Army Corps of Engineers on the whole project? (If yes, attach Preliminary or Jurisdictional Determination Report)	<input type="checkbox"/> Yes <input type="checkbox"/> No
4. If applicable, have you included PNDI clearance letters or other documentation from applicable resource agencies?	<input type="checkbox"/> Yes <input type="checkbox"/> No
5. If the project site contains, is along, or within 100 feet of a river, stream, creek, lake, pond or reservoir, will you establish new or preserve existing riparian forest buffer at least 100 feet in width between the top of streambank or normal pool elevation of a lake, pond or reservoir and areas of earth disturbances. If no, will a waiver be obtained? <input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No
6. Name of Licensed Professional	
Company	
Address	
Phone	

SECTION E. PROJECT INFORMATION

1. Total Project Area/Project Site (Ac):	1,644.1	Total Disturbed Area (Ac):	1,289.4
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Increased disturbed acreage (for permit modification only)

Fee: (For additional information regarding fees, refer to NOI Instructions #3 Permit NOI Filing Fees.) \$ Previously paid in initial 2016 application. See Section 1-3 for justification.

2. Project Name: PennEast Pipeline Project

3. Project Type (Check all that apply)
- | | |
|--|---|
| <input type="checkbox"/> Oil/Gas Well ¹ | <input checked="" type="checkbox"/> Transmission Facility |
| <input type="checkbox"/> Gathering Facility | <input type="checkbox"/> Processing Facility |
| <input type="checkbox"/> Treatment Facility | <input type="checkbox"/> Well Development Impoundment |
| <input checked="" type="checkbox"/> Compressor Station | <input type="checkbox"/> Non-FERC regulated Transmission Facility |
| <input checked="" type="checkbox"/> Pipeline | <input type="checkbox"/> Ground/Surface Water Withdrawal Site |
| <input type="checkbox"/> Storage Field Facility | |
| <input type="checkbox"/> Other | |

¹ If Oil/Gas Well; is the well conventional or unconventional? Conventional Unconventional

Project Description
 See Section 1-4 of this ESCGP-3 Application

Provide the date of pre-application meeting (if conducted with the Department)

4. Provide the latitude and longitude coordinates for the center of the project. The coordinates should be in Decimal degrees and North American Datum 1983. The coordinates must meet the current DEP policy regarding locational accuracy. For linear projects provide the project's termini.

Latitude (DD) 41.347 Longitude (DD) - 75.945
 Latitude (DD) 40.584 Longitude (DD) - 75.193
 Horizontal Collection Method: GPS Interpolated from U.S.G.S. Topographic Map DEP's eMAP

5. U.S.G.S. 7.5 min. topographic quadrangle Name See Section 1.5 of this ESCGP-3 Application
 (Include a copy of the project area on the 7.5 min quad map)

6. Will the project be conducted as a phased permit project? Yes No
 If Yes, Include Master Site Plan Estimated Timetable for Phased Projects. Additional sheet(s) attached.

Phase No. or Name	Description	Total Area	Disturbed Area	Start Date	End Date

7. List existing and previous land use for a minimum of the previous 5 years. See Section 2-1.
8. Other Pollutants: Will the stormwater discharge contain polluttional substances other than sediment? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, explain and provide any available quantitative data.
9. Will fuels, chemicals, solvents, other hazardous waste or materials be used or stored on site during earth disturbance activities or will Horizontal Directional Drilling (HDD) activities be conducted? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> (If yes, Preparedness, Prevention and Contingency (PPC) Plan must be maintained on site during earth disturbance. See NOI Instructions, E.9 PPC Plan Guidance for further information.)
10. Is the project in the watershed of an impaired surface water where the cause of the impairment is identified as siltation? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> (If yes, show how the project will not result in a net change in volume, rate or water quality. See section I below, and E.10 of NOI instructions.)
11. Are there potentially hazardous naturally occurring geological or soil conditions in any portion of the project or surrounding area? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If yes, do the potentially hazardous geologic or soil conditions have the potential to cause or contribute to pollution as a result of the proposed earth disturbance activities? If no, provide an explanation. If yes, Geologic Hazard Mitigation Plan must be attached and explain where in this application details are provided.
12. Has the Act 14 Municipal Notification and proof of receipt of notification been attached to the NOI? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> (If not, the NOI is not complete, see E.12 and #4 Municipal Notification in the NOI Instructions for additional guidance.)
13. Has the PNDI receipt been attached to the NOI? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> (If not, the NOI is not complete, see E.13 and #5 PNHP in the NOI Instructions for additional guidance.)
14. Have the E&S Plan and PCSM/SR Plan been planned and designed to be consistent? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
15. Have existing and/or proposed Riparian Forest Buffers been identified? Yes <input checked="" type="checkbox"/> N/A <input type="checkbox"/> (If yes, they must be shown on the E&S Plan as well as the PCSM/SR Plans.)
16. Have antidegradation implementation requirements for special protection waters been addressed? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> (If yes, antidegradation requirements must be included in the plan.)
17. Has the seasonal high groundwater level been identified and 20-inch separation established at all excavation locations for pits for conventional operations and Well Development Impoundments for unconventional operations? Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>

<p>18. Receiving Waters Trout Brook (CWF), Abraham's Creek (CWF), Toby Creek (CWF), Susquehanna River (WWF), Gardner Creek (CWF), Mill Creek (CWF), Little Bear Creek (HQ-CWF), Bear Creek (HQ-CWF), Meadow Run (HQ-CWF), Little Shades Creek (HQ-CWF), Shades Creek (HQ-CWF), Stony Run (HQ-CWF), Lehigh River (HQ-CWF), Lime Hollow (HQ-CWF), Porter Run (HQ-CWF), Black Creek (HQ-CWF), Fourth Run (HQ-CWF), Hickory Run (HQ-CWF), Hawk Run (HQ-CWF), Laurel Run (HQ-CWF), Mud Run (HQ-CWF), Panther Creek (HQ-CWF), Stony Creek (EV), Yellow Run (EV), Wild Creek (EV), Pine Run (EV), White Oak Run (EV), Pohopoco Creek (CWF), Hunter Creek (HQ-CWF), Borger Creek (CWF), Buckwha Creek (CWF), Aquashicola Creek (HQ-CWF), Indian Creek (CWF), Hokendauqua Creek (CWF), Monocacy Creek (HQ-CWF), East Branch Monocacy Creek (HQ-CWF), Shoeneck Creek (WWF), Bushkill Creek (HQ-CWF), Lehigh River (CWF), Frya Run (HQ-CWF), Cooks Creek (EV), Delaware River (WWF)</p>	<p>Chapter 93, Designated Use Stream Classification</p> <p><input checked="" type="checkbox"/> HQ <input checked="" type="checkbox"/> EV <input checked="" type="checkbox"/> Other <u>CWF, MF; WWF, MF</u></p> <p><input checked="" type="checkbox"/> Siltation-impaired</p> <p><input type="checkbox"/> HQ <input type="checkbox"/> EV <input type="checkbox"/> Other _____</p> <p><input type="checkbox"/> Siltation-impaired</p> <p><input type="checkbox"/> HQ <input type="checkbox"/> EV <input type="checkbox"/> Other _____</p> <p><input type="checkbox"/> Siltation-impaired</p> <p><input type="checkbox"/> HQ <input type="checkbox"/> EV <input type="checkbox"/> Other _____</p> <p><input type="checkbox"/> Siltation-impaired</p>	<p>Chapter 93, Existing Use Stream Classification</p> <p><input checked="" type="checkbox"/> HQ <input checked="" type="checkbox"/> EV <input checked="" type="checkbox"/> Other <u>CWF, MF; WWF, MF</u></p> <p><input checked="" type="checkbox"/> Siltation-impaired</p> <p><input type="checkbox"/> HQ <input type="checkbox"/> EV <input type="checkbox"/> Other _____</p> <p><input type="checkbox"/> Siltation-impaired</p> <p><input type="checkbox"/> HQ <input type="checkbox"/> EV <input type="checkbox"/> Other _____</p> <p><input type="checkbox"/> Siltation-impaired</p> <p><input type="checkbox"/> HQ <input type="checkbox"/> EV <input type="checkbox"/> Other _____</p> <p><input type="checkbox"/> Siltation-impaired</p>
<p>Secondary Receiving Water</p>	<p>Secondary Chapter 93, Designated Use</p>	<p>Secondary Existing Use</p>
<p>Name of Municipal or Private Separate Storm Sewer Operator, if applicable.</p> <p>N/A</p>		
<p>Non-Surface Receiving Water: (include off-site discharges)</p>		

SECTION F. EROSION AND SEDIMENT CONTROL (E&S) PLAN
See the attached Instructions for additional guidance with E&S Plans

Erosion and Sediment Control Plan BMPs should be designed to minimize accelerated erosion and sedimentation through limiting the extent and duration of earth disturbance, protection of existing drainage and vegetation, limiting soil compaction and controlling the generation of increased runoff. The Department recommends the use of the *Pennsylvania Erosion & Sedimentation Pollution Control Program Manual (E&S Manual)* (363-2134-008) to achieve this goal. The E&S Plan must meet the requirements of Pa. Code § 102.4(b) and submitted with the NOI. Also, see section 2. of the NOI instruction for detailed information on completing the E&S plan and additional requirements.

a. E&S Plan Summary

Provide a summary of proposed E&S BMPs and their performance to manage E&S for the project.

Typical pipeline BMPs that are proposed include waterbars, trench plugs, sediment barriers (compost filter socks), rock filter outlets, erosion control blanket, rock construction entrances, broad-based dips, temporary equipment bridges, timber mats, diversion channels, temporary slope pipes, level spreaders, mulch, and seed. An appropriate sediment removal device (filter bag, dewatering structure) and well-vegetated area will be utilized for trench and hydrostatic test dewatering. Antidegradation Best Available Combination of Technologies (ABACT) BMPs, including compost filter socks and extended rock construction entrances with daily maintenance, will be utilized in HQ/EV watersheds. Additional information about the proposed BMPs are discussed in the Erosion and Sediment Control Plan.

b. E&S Plan BMP Design

Check those that apply:

- E&S Plan is designed using BMPs in the *E&S Manual*.
- E&S Plan is designed using an alternative BMP or design standard approved by DEP.

Note: NOI packages submitted with alternate BMPs not approved by the Department will be returned to the Applicant.

c. Do you have any information regarding riparian buffer which differs from Section G, Riparian Buffer?

Yes No

Explain:

d. Thermal Impacts Analysis

Explain how thermal impacts associated with this project were avoided, minimized, or mitigated.

Clearing and grading associated with the pipeline construction may result in temporary loss of tree canopy and riparian vegetation along surface waters and wetlands, potentially resulting in thermal impacts from the loss of shading. However, the thermal impacts will be minimized by limiting the construction ROW to 75 feet, where possible, at wetlands and limiting the maintained permanent ROW to 10 feet at wetlands.

In streams and wetlands, trees and brush will be cut just above or to ground level, leaving the stumps and root systems intact. Tree stumps will be preserved to the maximum extent practicable and will be removed only over the trenchline and where the stumps present a safety hazard for construction. Leaving stumps and root systems in this manner will promote re-growth in some species.

Once pipeline construction activities are complete, disturbed areas will be restored to pre-construction contours and seeded as described in the E&SCP. Temporary workspace disturbed for construction will be allowed to re-establish with woody and herbaceous vegetation species. PennEast Pipeline Company, LLC will plant trees within the temporary workspace of riparian buffers and forested wetlands.

e. Off-Site Discharge Analysis

Does the activity propose any off-site discharges to areas other than surface waters? Yes No

If yes, it is the applicant's responsibility to ensure that they have legal authority for any off-site discharge to neighboring properties.

The applicant must provide a demonstration in both E&S and PCSM/SR plans that the discharge will not cause erosion, damage, or a nuisance to off-site properties.

SECTION G. RIPARIAN BUFFER

1. Will you be protecting, converting or establishing a voluntary riparian forest buffer as part of this project? Yes No
If yes, as part of the PCSM/SR Plan, provide a Buffer Management Plan.

2. Will proposed earth disturbance activities be conducted in an EV or HQ watershed AND within 150 feet of a perennial or intermittent river, stream, or creek, or lake, pond, or reservoir? Yes No

If no, proceed to the next section/module.

3. Does this project qualify for an exception (see § 102.14(d)(1))? Yes No

If yes, indicate below the type of project for which the exception applies by marking the appropriate box.

Oil and gas activities for which site reclamation or restoration is part of the permit authorization in Chapter 78 and 78a.

Road maintenance activities.

The repair or maintenance of existing pipelines and utilities.

Other (see §102.14(d)(1))

If exceptions are checked, explain how existing riparian buffer will be undisturbed to the extent practicable. Provide a demonstration that the requirements of §102.14(b) are met, or provide the necessary information to request a riparian buffer waiver.

4. Are you requesting a riparian buffer waiver for this project (see § 102.14(d)(2))? Yes No

If yes, indicate below the type of project for which you are requesting a waiver by marking the appropriate box.

Linear project that may include pipelines, public roadways, rail lines, or utility lines.

Project is of a temporary nature where the site will be fully restored to its preexisting conditions during the ESCGP permit term.

Project where compliance with mandatory riparian buffers is not appropriate or feasible due to site characteristics or existing structures at the project site.

Other (see §102.14(d)(2)):

If waivers are checked, explain how existing riparian buffers will be undisturbed to the extent practicable.

Note: If "Yes" to #2 **AND** "No" to #3 and #4, provide an attachment to demonstrate how the requirements of §102.14 are met.

Please refer to riparian buffer waiver request in ESCGP-3 Section 1-7.

SECTION H. POST CONSTRUCTION STORMWATER MANAGEMENT (PCSM) AND/OR SITE RESTORATION(SR) PLAN

See NOI Instructions for additional guidance with PCSM Plans

PCSM/SR BMPs should be designed to use natural measures to eliminate pollution, infiltrate runoff, not require extensive construction/maintenance, promote pollutant reduction, and preserve the integrity of stream channels. All PCSM/SR BMPs proposed in the PCSM/SR Plan must be designed in accordance with Ch. 102, Ch. 78a for unconventional operations, Ch. 78 for conventional operations and the *Pennsylvania Stormwater Best Management Practices Manual (Stormwater BMP Manual)* (363-0300-002). If alternate design criteria are utilized for the proposed project, they must have prior approval by the Department, or the NOI Application will be returned to the Applicant.

After construction is completed, how much of the entire disturbed area will be restored to meadow in good condition or better, or existing conditions? All Partial None

Include PCSM narrative and drawings for remaining impervious area. Also include a map showing the proposed contours of the site restoration plan.

If there are additional stages of the project prior to permit termination or expiration, list the stages and provide the documents required by subsection 'a' to section 'g' for each stage (e.g. partial restoration or changes to the amount of compacted areas, gravel, and/or impervious areas). Upload a narrative for each additional stage in addition to the drawings.

EXAMPLE

Stage No	Stage Name	PCSM Plan	SR Plan
Stage 1		<input type="checkbox"/>	<input type="checkbox"/>
Stage 2		<input type="checkbox"/>	<input type="checkbox"/>
Stage 3		<input type="checkbox"/>	<input type="checkbox"/>
Stage 4		<input type="checkbox"/>	<input type="checkbox"/>

Act 167 Consistency. Check those that apply.

Is there an Act 167 Plan? Yes No

The attached PCSM/SR Plan is consistent with an applicable approved Act 167 Plan.

Complete the following for all approved Act 167 Stormwater Management Plans. (Use additional sheets if necessary)

Act 167 Plan Name	Date Adopted	Consistency Letter Included	<input type="checkbox"/>
<u>Luzerne County Act 167 Watershed Management Plan</u>	<u>June 2010</u>	Verification Report Included	<input checked="" type="checkbox"/>
<u>Lehigh Valley Planning Commission Act 167 Watershed Management Plan</u>	<u>June 15, 2006</u>		

Note: A consistency letter is not required if a verification report is provided. See NOI Instructions. The PCSM/SR Plan must satisfy either sub paragraph 1, 2, or 3 below. Check those that apply.

- Act 167 Plan approvals on or after January 2005 – The attached PCSM/SR Plan, in its entirety, is consistent with all requirements pertaining to rate, volume, and water quality from an Act 167 Stormwater Management Plan approved by DEP on or after January 2005. Box 1 must be checked if a current, DEP approved Act 167 plan exists.
- The PCSM/SR Plan meets the standard design criteria from sections 102.8(g)(2) and (3) and the *Stormwater BMP Manual*. For projects involving oil and gas activities authorized by a permit issued under Chapter 78 or Chapter 78a (well pads) or pipelines and other similar utility infrastructure, post construction stormwater management requirements are met for all areas that are restored to preconstruction conditions or to a condition of meadow in good condition or better. [Note: PCSM plans must meet both the volume and rate requirements in the regulations, which are provided in the 2 sections mentioned in this paragraph].
- Alternative Design Standard – The attached PCSM/SR Plan was developed using approaches as provided in 102.8(g)(2)(iv) and 102.8(g)(3)(iii). Demonstrate/explain in the space provided below how this standard will be either more protective than what is required in 102.8(g)(2) and 102.8(g)(3) or will maintain and protect existing water quality and existing and designated uses.

PCSM/SR BMP Alternative Standards:

Has the alternative BMP or design standard been approved by the Department?

Yes NOT APPLICABLE

No – Do not submit the ESCGP-3 application and see Section (H) of the NOI Instructions concerning the alternative BMP approval process.

Water Quality Compliance:

Does the PCSM/SR plan comply with requirements for volume control? Yes No

If yes, is at least 90% of the disturbed area controlled by a PCSM BMP? Yes No

If yes, do you have the Standard PCSM Worksheet # 10 attached to show water quality compliance has achieved?

Yes No

If no, attach Standard PCSM Worksheets # 12 and #13 to show water quality compliance has achieved.

If PCSM/SR plan is not complying with the requirements for volume control, attach Standard PCSM Worksheets # 11, # 12 and #13 to show water quality compliance has achieved.

a. PCSM/SR Plan Summary

Provide a summary of proposed BMPs and their performance to manage PCSM/SR for the project.

Along the mainline pipeline, typical E&S BMPs such as permanent waterbars and erosion control blanket will be left in place as part of site restoration for the project. At the aboveground facility sites, typical PCSM BMPs such as infiltration basins, infiltration berms, level spreaders, and vegetative swales will be used and left in place as part of site restoration for facility sites.

Check all that apply PCSM BMPs SR BMPs

b. Do you have any information regarding riparian buffer which differs from what was submitted in the Section G, Riparian Buffer?

Yes No

Explain:

c. Thermal Impacts Analysis

Explain how thermal impacts associated with this project were avoided, minimized, or mitigated.

Infiltration of runoff collected in the PCSM facilities will mitigate thermal impacts from post construction stormwater. Further, it is not expected that runoff collected in stormwater infiltration basins and discharged overland to the receiving water will be retained for more than 24 hours, thus providing additional mitigation of potential thermal impacts of discharge from the PCSM facilities. Existing shade trees will be preserved to the greatest extent possible, and excessive riprapping and installation of concrete channels is avoided, which will minimize the transfer of heat to the runoff.

d. Off-Site Discharge Analysis.

Does the activity propose any off-site discharges to areas other than surface waters? Yes No

If yes, it is the applicant's responsibility to ensure that they have legal authority for any off-site discharge to neighboring properties.

The Applicant must provide a demonstration in both the E&S and PCSM/SR Plans that the discharge will not cause erosion, damage, or a nuisance to off-site properties.

**NOI Section H. POST CONSTRUCTION STORMWATER
MANAGEMENT (PCSM) AND/OR SITE
RESTORATION(SR) PLAN**

Summary Tables for Supporting Calculation and Measurement Data

and

Summary Descriptions of PCSM/SR BMPs

Wyoming Interconnect (EAST POI)

Wyoming Interconnect (WEST POI)

Springville Interconnect

Auburn & Leidy Interconnects

Kidder Compressor Station

TCO & UGI-LEH Interconnects

Hellertown Launcher

Blue Mountain Interconnect

Blue Mountain Side Valve

Mainline Block Valve 1

Mainline Block Valve 2

Mainline Block Valve 3

Mainline Block Valve 4

Mainline Block Valve 6

Mainline Block Valve 7

**NOTICE OF INTENT (NOI) FOR COVERAGE UNDER THE EROSION AND SEDIMENT CONTROL
 GENERAL PERMIT (ESCGP-3) FOR EARTH DISTURBANCE ASSOCIATED WITH OIL AND GAS
 EXPLORATION, PRODUCTION, PROCESSING, OR TREATMENT OPERATIONS OR
 TRANSMISSION FACILITIES**

TABLES IN ADDENDUM OF NOI

SECTION H. POST CONSTRUCTION STORMWATER MANAGEMENT (PCSM) PLAN BMPs

Wyoming Interconnect (EAST POI)

e. Summary Table for Supporting Calculation and Measurement Data
 (See NOI Instructions for additional guidance with this section)
 The remainder of this section (Summary Table for Calculation and Measurement Data) does not need to be completed for areas of projects involving oil and gas activities authorized by Chapter 78 or Chapter 78a (well pads) or pipelines and other similar utility infrastructure which will be restored to meadow in good condition or better or existing conditions.

Watershed Name: Trout Brook			
Volume Control design storm frequency _____ 2-year Rainfall amount <u>2.75</u> inches	Pre-construction	Post Construction	Net Change
Impervious area (acres)	0.030	0.680	+0.650
Volume of stormwater runoff (acre- feet) without planned stormwater BMPs	0.219	0.322	+0.103
Volume of stormwater runoff (acre- feet) with planned stormwater BMPs		-0.098	-0.317
Stormwater discharge rate for the design frequency storm	Pre-construction	Post Construction	Net Change
1) 2-Year/24-Hour	1.87 cfs	0.74 cfs	-1.13 cfs
2) 10-Year/24-Hour	4.71 cfs	1.34 cfs	-3.37 cfs
3) 50-year/24-Hour	9.54 cfs	5.85 cfs	-3.69 cfs
4) 100-year/24-Hour	12.50 cfs	9.50 cfs	-3.00 cfs

f. Summary Description of PCSM/SR BMPs

In the lists below, check the BMPs identified in the PCSM Plan. The primary function(s) of the BMP listed in the functions column (infiltration/recharge; detention/retention; water quality). Additional functions may be added if applicable to that BMP. List the stormwater volume and area of runoff to be treated by each BMP type when calculations are required. If any BMP in the PCSM/SR Plan is not listed below, describe it in the space provided after "Other". A summary table with infiltration testing information (Attachment E, included in the NOI Instructions) must be submitted for all Bio-infiltration BMPs included in PCSM/SR plan.

For Rate control provide the volume of stormwater treated and acres treated for the 100-year/24-hour storm event.

For volume control and water quality provide the volume of stormwater treated and acres treated for the 2-year/24-hour storm event.

Key for BMP purpose(s): VC = Volume Control; RC = Rate Control; and WQ = Water Quality

BMP	Function(s)	Purpose(s)	Volume of stormwater treated	Acres treated
Site Restoration ONLY <input type="checkbox"/> Restore Site to Meadow in Good Condition or Better, or Existing Conditions	Infiltration/Recharge Detention/WQ Treatment	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____	_____

Bio-infiltration areas <input type="checkbox"/> Infiltration Trench <input type="checkbox"/> Infiltration Bed <input checked="" type="checkbox"/> Infiltration Basin <input type="checkbox"/> Rain Garden/ Bioretention <input checked="" type="checkbox"/> Infiltration Berm	Infiltration/Recharge	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input checked="" type="checkbox"/> VC <input checked="" type="checkbox"/> RC <input checked="" type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input checked="" type="checkbox"/> VC <input type="checkbox"/> RC <input checked="" type="checkbox"/> WQ	_____ _____ <u>8,201 cf</u> _____ <u>10,694 cf</u>	_____ _____ <u>0.693</u> _____ <u>0.707</u>
Natural Area Conservation <input type="checkbox"/> Streamside Buffer Zone <input type="checkbox"/> Wetland Buffer Zone <input type="checkbox"/> Sensitive Area Buffer Zone <input type="checkbox"/> Pre-Construction Drainage Pattern Intact	Infiltration/Recharge	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____ _____	_____ _____ _____ _____
Stormwater Retention <input type="checkbox"/> Constructed Wetlands <input type="checkbox"/> Wet Ponds <input type="checkbox"/> Retention Basin	Detention/Retention	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____	_____ _____ _____
Sediment and Pollutant Removal <input type="checkbox"/> Vegetated Filter Strips <input type="checkbox"/> Compost Filter Sock <input type="checkbox"/> Detention Basins	Water Quality Treatment	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____	_____ _____ _____
Access Road Design <input type="checkbox"/> Road Crowning <input type="checkbox"/> Ditches <input type="checkbox"/> Turnouts <input type="checkbox"/> Culverts <input type="checkbox"/> Roadside Vegetated Filter Strips	Infiltration/Recharge	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____ _____ _____	_____ _____ _____ _____ _____
Stormwater Energy Dissipaters <input checked="" type="checkbox"/> Level Spreaders <input type="checkbox"/> Riprap Aprons <input type="checkbox"/> Upslope Diversions <input type="checkbox"/> Other _____	Infiltration/Recharge	<input type="checkbox"/> VC <input checked="" type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ <u>18,295 cf</u> _____ _____ _____	_____ <u>1.4</u> _____ _____ _____

g. Critical PCSM Plan stages

Identify and list critical stages of implementation of the PCSM Plan for which a licensed professional or designee shall be present on site.

1. The engineer shall inspect the subsurface infiltration facility prior to backfilling.
2. Facilities inspected by engineer prior to raising grades to invert level.
3. Engineer shall inspect final stabilization prior to removal of temporary measures.

**NOTICE OF INTENT (NOI) FOR COVERAGE UNDER THE EROSION AND SEDIMENT CONTROL
 GENERAL PERMIT (ESCGP-3) FOR EARTH DISTURBANCE ASSOCIATED WITH OIL AND GAS
 EXPLORATION, PRODUCTION, PROCESSING, OR TREATMENT OPERATIONS OR
 TRANSMISSION FACILITIES**

TABLES IN ADDENDUM OF NOI

SECTION H. POST CONSTRUCTION STORMWATER MANAGEMENT (PCSM) PLAN BMPs

Wyoming Interconnect (WEST POI)

e. Summary Table for Supporting Calculation and Measurement Data
 (See NOI Instructions for additional guidance with this section)

The remainder of this section (Summary Table for Calculation and Measurement Data) does not need to be completed for areas of projects involving oil and gas activities authorized by Chapter 78 or Chapter 78a (well pads) or pipelines and other similar utility infrastructure which will be restored to meadow in good condition or better or existing conditions.

Watershed Name: Trout Brook			
Volume Control design storm frequency _____ 2-year Rainfall amount <u>2.75</u> inches	Pre-construction	Post Construction	Net Change
Impervious area (acres)	0.030	0.310	+0.280
Volume of stormwater runoff (acre- feet) without planned stormwater BMPs	0.036	0.083	+0.047
Volume of stormwater runoff (acre- feet) with planned stormwater BMPs		0.083	+0.047
Stormwater discharge rate for the design frequency storm	Pre-construction	Post Construction	Net Change
1) 2-Year/24-Hour	0.35 cfs	0.19 cfs	-0.16 cfs
2) 10-Year/24-Hour	0.75 cfs	0.39 cfs	-0.36 cfs
3) 50-year/24-Hour	1.43 cfs	0.72 cfs	-0.71 cfs
4) 100-year/24-Hour	1.84 cfs	0.92 cfs	-0.92 cfs

f. Summary Description of PCSM/SR BMPs

In the lists below, check the BMPs identified in the PCSM Plan. The primary function(s) of the BMP listed in the functions column (infiltration/recharge; detention/retention; water quality). Additional functions may be added if applicable to that BMP. List the stormwater volume and area of runoff to be treated by each BMP type when calculations are required. If any BMP in the PCSM/SR Plan is not listed below, describe it in the space provided after "Other". A summary table with infiltration testing information (Attachment E, included in the NOI Instructions) must be submitted for all Bio-infiltration BMPs included in PCSM/SR plan.

For Rate control provide the volume of stormwater treated and acres treated for the 100-year/24-hour storm event.

For volume control and water quality provide the volume of stormwater treated and acres treated for the 2-year/24-hour storm event.

Key for BMP purpose(s): VC = Volume Control; RC = Rate Control; and WQ = Water Quality

BMP	Function(s)	Purpose(s)	Volume of stormwater treated	Acres treated
Site Restoration ONLY <input type="checkbox"/> Restore Site to Meadow in Good Condition or Better, or Existing Conditions	Infiltration/Recharge Detention/WQ Treatment	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____	_____

Bio-infiltration areas <input type="checkbox"/> Infiltration Trench <input type="checkbox"/> Infiltration Bed <input checked="" type="checkbox"/> Infiltration Basin <input type="checkbox"/> Rain Garden/ Bioretention <input checked="" type="checkbox"/> Infiltration Berm	Infiltration/Recharge	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input checked="" type="checkbox"/> VC <input checked="" type="checkbox"/> RC <input checked="" type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input checked="" type="checkbox"/> VC <input type="checkbox"/> RC <input checked="" type="checkbox"/> WQ	_____ _____ <u>POI EAST</u> _____ <u>POI EAST</u>	_____ _____ <u>POI EAST</u> _____ <u>POI EAST</u>
Natural Area Conservation <input type="checkbox"/> Streamside Buffer Zone <input type="checkbox"/> Wetland Buffer Zone <input type="checkbox"/> Sensitive Area Buffer Zone <input type="checkbox"/> Pre-Construction Drainage Pattern Intact	Infiltration/Recharge	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____ _____	_____ _____ _____ _____
Stormwater Retention <input type="checkbox"/> Constructed Wetlands <input type="checkbox"/> Wet Ponds <input type="checkbox"/> Retention Basin	Detention/Retention	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____	_____ _____ _____
Sediment and Pollutant Removal <input type="checkbox"/> Vegetated Filter Strips <input type="checkbox"/> Compost Filter Sock <input type="checkbox"/> Detention Basins	Water Quality Treatment	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____	_____ _____ _____
Access Road Design <input type="checkbox"/> Road Crowning <input type="checkbox"/> Ditches <input type="checkbox"/> Turnouts <input type="checkbox"/> Culverts <input type="checkbox"/> Roadside Vegetated Filter Strips	Infiltration/Recharge	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____ _____ _____	_____ _____ _____ _____ _____
Stormwater Energy Dissipaters <input type="checkbox"/> Level Spreaders <input type="checkbox"/> Riprap Aprons <input type="checkbox"/> Upslope Diversions <input type="checkbox"/> Other _____	Infiltration/Recharge	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____ _____	_____ _____ _____ _____

g. Critical PCSM Plan stages

Identify and list critical stages of implementation of the PCSM Plan for which a licensed professional or designee shall be present on site.

1. Engineer to inspect the subsurface infiltration facility prior to backfilling.
2. Facilities inspected by engineer prior to raising grades to invert level.
3. Engineer shall inspect final stabilization prior to removal of temporary measures.

**NOTICE OF INTENT (NOI) FOR COVERAGE UNDER THE EROSION AND SEDIMENT CONTROL
 GENERAL PERMIT (ESCGP-3) FOR EARTH DISTURBANCE ASSOCIATED WITH OIL AND GAS
 EXPLORATION, PRODUCTION, PROCESSING, OR TREATMENT OPERATIONS OR
 TRANSMISSION FACILITIES**

TABLES IN ADDENDUM OF NOI

SECTION H. POST CONSTRUCTION STORMWATER MANAGEMENT (PCSM) PLAN BMPs

Springville Interconnect

e. Summary Table for Supporting Calculation and Measurement Data
 (See NOI Instructions for additional guidance with this section)
 The remainder of this section (Summary Table for Calculation and Measurement Data) does not need to be completed for areas of projects involving oil and gas activities authorized by Chapter 78 or Chapter 78a (well pads) or pipelines and other similar utility infrastructure which will be restored to meadow in good condition or better or existing conditions.

Watershed Name: Toby Creek			
Volume Control design storm frequency _____ 2-year _____ Rainfall amount <u>2.75</u> inches	Pre-construction	Post Construction	Net Change
Impervious area (acres)	0.020	0.930	+0.910
Volume of stormwater runoff (acre- feet) without planned stormwater BMPs	1.068	1.208	+0.140
Volume of stormwater runoff (acre- feet) with planned stormwater BMPs		1.028	-0.040
Stormwater discharge rate for the design frequency storm	Pre-construction	Post Construction	Net Change
1) 2-Year/24-Hour	12.51 cfs	11.62 cfs	-0.89 cfs
2) 10-Year/24-Hour	29.29 cfs	27.45 cfs	-1.84 cfs
3) 50-year/24-Hour	57.02 cfs	53.36 cfs	-3.66 cfs
4) 100-year/24-Hour	73.77 cfs	68.95 cfs	-4.82 cfs

f. Summary Description of PCSM/SR BMPs

In the lists below, check the BMPs identified in the PCSM Plan. The primary function(s) of the BMP listed in the functions column (infiltration/recharge; detention/retention; water quality). Additional functions may be added if applicable to that BMP. List the stormwater volume and area of runoff to be treated by each BMP type when calculations are required. If any BMP in the PCSM/SR Plan is not listed below, describe it in the space provided after "Other". A summary table with infiltration testing information (Attachment E, included in the NOI Instructions) must be submitted for all Bio-infiltration BMPs included in PCSM/SR plan.

For Rate control provide the volume of stormwater treated and acres treated for the 100-year/24-hour storm event.

For volume control and water quality provide the volume of stormwater treated and acres treated for the 2-year/24-hour storm event.

Key for BMP purpose(s): VC = Volume Control; RC = Rate Control; and WQ = Water Quality

BMP	Function(s)	Purpose(s)	Volume of stormwater treated	Acres treated
Site Restoration ONLY <input type="checkbox"/> Restore Site to Meadow in Good Condition or Better, or Existing Conditions	Infiltration/Recharge Detention/WQ Treatment	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____	_____

Bio-infiltration areas <input type="checkbox"/> Infiltration Trench <input type="checkbox"/> Infiltration Bed <input checked="" type="checkbox"/> Infiltration Basin <input type="checkbox"/> Rain Garden/ Bioretention <input checked="" type="checkbox"/> Infiltration Berm	Infiltration/Recharge	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input checked="" type="checkbox"/> VC <input checked="" type="checkbox"/> RC <input checked="" type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input checked="" type="checkbox"/> VC <input type="checkbox"/> RC <input checked="" type="checkbox"/> WQ	_____ _____ <u>3,823 cf</u> _____ <u>4,028 cf</u>	_____ _____ <u>1.788</u> _____ <u>4.414</u>
Natural Area Conservation <input type="checkbox"/> Streamside Buffer Zone <input type="checkbox"/> Wetland Buffer Zone <input type="checkbox"/> Sensitive Area Buffer Zone <input type="checkbox"/> Pre-Construction Drainage Pattern Intact	Infiltration/Recharge	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____ _____	_____ _____ _____ _____
Stormwater Retention <input type="checkbox"/> Constructed Wetlands <input type="checkbox"/> Wet Ponds <input type="checkbox"/> Retention Basin	Detention/Retention	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____	_____ _____ _____
Sediment and Pollutant Removal <input type="checkbox"/> Vegetated Filter Strips <input type="checkbox"/> Compost Filter Sock <input type="checkbox"/> Detention Basins	Water Quality Treatment	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____	_____ _____ _____
Access Road Design <input type="checkbox"/> Road Crowning <input type="checkbox"/> Ditches <input type="checkbox"/> Turnouts <input type="checkbox"/> Culverts <input type="checkbox"/> Roadside Vegetated Filter Strips	Infiltration/Recharge	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____ _____ _____	_____ _____ _____ _____ _____
Stormwater Energy Dissipaters <input type="checkbox"/> Level Spreaders <input type="checkbox"/> Riprap Aprons <input type="checkbox"/> Upslope Diversions <input type="checkbox"/> Other _____	Infiltration/Recharge	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____ _____	_____ _____ _____ _____

g. Critical PCSM Plan stages

Identify and list critical stages of implementation of the PCSM Plan for which a licensed professional or designee shall be present on site.

1. Engineer shall inspect installation and stabilization of Swales 3 and 4, erosion control blanket, rock filters, riprap aprons and stilling basin.
2. Engineer shall inspect the basin installation and temporary outlet control structure.
3. Engineer shall inspect grading prior to final elevation.
4. Engineer shall inspect final stabilization prior to removal of temporary measures.

**NOTICE OF INTENT (NOI) FOR COVERAGE UNDER THE EROSION AND SEDIMENT CONTROL
 GENERAL PERMIT (ESCGP-3) FOR EARTH DISTURBANCE ASSOCIATED WITH OIL AND GAS
 EXPLORATION, PRODUCTION, PROCESSING, OR TREATMENT OPERATIONS OR
 TRANSMISSION FACILITIES**

TABLES IN ADDENDUM OF NOI

SECTION H. POST CONSTRUCTION STORMWATER MANAGEMENT (PCSM) PLAN BMPs

Auburn & Leidy Interconnects

e. Summary Table for Supporting Calculation and Measurement Data
(See NOI Instructions for additional guidance with this section)
 The remainder of this section (Summary Table for Calculation and Measurement Data) does not need to be completed for areas of projects involving oil and gas activities authorized by Chapter 78 or Chapter 78a (well pads) or pipelines and other similar utility infrastructure which will be restored to meadow in good condition or better or existing conditions.

Watershed Name: Abraham's Creek			
Volume Control design storm frequency _____ 2-year _____ Rainfall amount <u>2.63</u> inches	Pre-construction	Post Construction	Net Change
Impervious area (acres)	1.170	2.920	+1.750
Volume of stormwater runoff (acre- feet) without planned stormwater BMPs	0.563	0.879	+0.316
Volume of stormwater runoff (acre- feet) with planned stormwater BMPs		0.453	-0.110
Stormwater discharge rate for the design frequency storm	Pre-construction	Post Construction	Net Change
1) 2-Year/24-Hour	8.26 cfs	3.98 cfs	-4.28 cfs
2) 10-Year/24-Hour	17.78 cfs	16.62 cfs	-1.16 cfs
3) 50-year/24-Hour	35.35 cfs	28.67 cfs	-6.68 cfs
4) 100-year/24-Hour	47.76 cfs	37.81 cfs	-9.95 cfs

f. Summary Description of PCSM/SR BMPs

In the lists below, check the BMPs identified in the PCSM Plan. The primary function(s) of the BMP listed in the functions column (infiltration/recharge; detention/retention; water quality). Additional functions may be added if applicable to that BMP. List the stormwater volume and area of runoff to be treated by each BMP type when calculations are required. If any BMP in the PCSM/SR Plan is not listed below, describe it in the space provided after "Other". A summary table with infiltration testing information (Attachment E, included in the NOI Instructions) must be submitted for all Bio-infiltration BMPs included in PCSM/SR plan.

For Rate control provide the volume of stormwater treated and acres treated for the 100-year/24-hour storm event.

For volume control and water quality provide the volume of stormwater treated and acres treated for the 2-year/24-hour storm event.

Key for BMP purpose(s): VC = Volume Control; RC = Rate Control; and WQ = Water Quality

BMP	Function(s)	Purpose(s)	Volume of stormwater treated	Acres treated
Site Restoration ONLY <input type="checkbox"/> Restore Site to Meadow in Good Condition or Better, or Existing Conditions	Infiltration/Recharge Detention/WQ Treatment	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____	_____

Bio-infiltration areas <input type="checkbox"/> Infiltration Trench <input type="checkbox"/> Infiltration Bed <input checked="" type="checkbox"/> Infiltration Basin <input type="checkbox"/> Rain Garden/ Bioretention <input type="checkbox"/> Infiltration Berm	Infiltration/Recharge	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input checked="" type="checkbox"/> VC <input checked="" type="checkbox"/> RC <input checked="" type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ <u>18,575</u> cf _____ _____	_____ _____ <u>4.76</u> _____ _____
Natural Area Conservation <input type="checkbox"/> Streamside Buffer Zone <input type="checkbox"/> Wetland Buffer Zone <input type="checkbox"/> Sensitive Area Buffer Zone <input type="checkbox"/> Pre-Construction Drainage Pattern Intact	Infiltration/Recharge	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____ _____	_____ _____ _____ _____
Stormwater Retention <input type="checkbox"/> Constructed Wetlands <input type="checkbox"/> Wet Ponds <input type="checkbox"/> Retention Basin	Detention/Retention	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____	_____ _____ _____
Sediment and Pollutant Removal <input type="checkbox"/> Vegetated Filter Strips <input type="checkbox"/> Compost Filter Sock <input type="checkbox"/> Detention Basins	Water Quality Treatment	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____	_____ _____ _____
Access Road Design <input type="checkbox"/> Road Crowning <input type="checkbox"/> Ditches <input type="checkbox"/> Turnouts <input type="checkbox"/> Culverts <input type="checkbox"/> Roadside Vegetated Filter Strips	Infiltration/Recharge	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____ _____ _____	_____ _____ _____ _____ _____
Stormwater Energy Dissipaters <input type="checkbox"/> Level Spreaders <input checked="" type="checkbox"/> Riprap Aprons <input type="checkbox"/> Upslope Diversions <input checked="" type="checkbox"/> Other <u>Sediment Trap</u>	Infiltration/Recharge	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input checked="" type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input checked="" type="checkbox"/> RC <input type="checkbox"/> WQ	_____ <u>18,575</u> cf _____ <u>18,575</u> cf	_____ <u>4.76</u> _____ <u>4.76</u>

g. Critical PCSM Plan stages

Identify and list critical stages of implementation of the PCSM Plan for which a licensed professional or designee shall be present on site.

1. Inspection of sediment trap, compost filter sock, riprap outlet protection post installation.
2. Final inspection of installed subsurface infiltration system prior to backfilling.
3. Engineer shall inspect grading prior to final elevation.
4. Engineer shall inspect final stabilization prior to removal of temporary measures.

**NOTICE OF INTENT (NOI) FOR COVERAGE UNDER THE EROSION AND SEDIMENT CONTROL
 GENERAL PERMIT (ESCGP-3) FOR EARTH DISTURBANCE ASSOCIATED WITH OIL AND GAS
 EXPLORATION, PRODUCTION, PROCESSING, OR TREATMENT OPERATIONS OR
 TRANSMISSION FACILITIES**

TABLES IN ADDENDUM OF NOI

SECTION H. POST CONSTRUCTION STORMWATER MANAGEMENT (PCSM) PLAN BMPs

Kidder Compressor Station

e. Summary Table for Supporting Calculation and Measurement Data
 (See NOI Instructions for additional guidance with this section)
 The remainder of this section (Summary Table for Calculation and Measurement Data) does not need to be completed for areas of projects involving oil and gas activities authorized by Chapter 78 or Chapter 78a (well pads) or pipelines and other similar utility infrastructure which will be restored to meadow in good condition or better or existing conditions.

Watershed Name: Black Creek Tributary			
Volume Control design storm frequency _____ 2-year _____ Rainfall amount <u>3.17</u> inches	Pre-construction	Post Construction	Net Change
Impervious area (acres)	1.000	9.800	+8.800
Volume of stormwater runoff (acre- feet) without planned stormwater BMPs	4.509	6.419	+1.910
Volume of stormwater runoff (acre- feet) with planned stormwater BMPs		4.174	-0.335
Stormwater discharge rate for the design frequency storm	Pre-construction	Post Construction	Net Change
1) 2-Year/24-Hour	91.10 cfs	81.33 cfs	-9.77 cfs
2) 10-Year/24-Hour	172.99 cfs	147.75 cfs	-25.24 cfs
3) 50-year/24-Hour	302.73 cfs	249.15 cfs	-53.58 cfs
4) 100-year/24-Hour	379.26 cfs	300.88 cfs	-78.38 cfs

f. Summary Description of PCSM/SR BMPs

In the lists below, check the BMPs identified in the PCSM Plan. The primary function(s) of the BMP listed in the functions column (infiltration/recharge; detention/retention; water quality). Additional functions may be added if applicable to that BMP. List the stormwater volume and area of runoff to be treated by each BMP type when calculations are required. If any BMP in the PCSM/SR Plan is not listed below, describe it in the space provided after "Other". A summary table with infiltration testing information (Attachment E, included in the NOI Instructions) must be submitted for all Bio-infiltration BMPs included in PCSM/SR plan.

For Rate control provide the volume of stormwater treated and acres treated for the 100-year/24-hour storm event.

For volume control and water quality provide the volume of stormwater treated and acres treated for the 2-year/24-hour storm event.

Key for BMP purpose(s): VC = Volume Control; RC = Rate Control; and WQ = Water Quality

BMP	Function(s)	Purpose(s)	Volume of stormwater treated	Acres treated
Site Restoration ONLY <input type="checkbox"/> Restore Site to Meadow in Good Condition or Better, or Existing Conditions	Infiltration/Recharge Detention/WQ Treatment	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____	_____

Bio-infiltration areas <input type="checkbox"/> Infiltration Trench <input type="checkbox"/> Infiltration Bed <input checked="" type="checkbox"/> Infiltration Basin <input type="checkbox"/> Rain Garden/ Bioretention <input type="checkbox"/> Infiltration Berm	Infiltration/Recharge	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input checked="" type="checkbox"/> VC <input checked="" type="checkbox"/> RC <input checked="" type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ <u>97,774</u> cf _____ _____	_____ _____ <u>18.46</u> _____ _____
Natural Area Conservation <input type="checkbox"/> Streamside Buffer Zone <input type="checkbox"/> Wetland Buffer Zone <input type="checkbox"/> Sensitive Area Buffer Zone <input type="checkbox"/> Pre-Construction Drainage Pattern Intact	Infiltration/Recharge	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____ _____	_____ _____ _____ _____
Stormwater Retention <input type="checkbox"/> Constructed Wetlands <input type="checkbox"/> Wet Ponds <input type="checkbox"/> Retention Basin	Detention/Retention	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____	_____ _____ _____
Sediment and Pollutant Removal <input type="checkbox"/> Vegetated Filter Strips <input type="checkbox"/> Compost Filter Sock <input type="checkbox"/> Detention Basins	Water Quality Treatment	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____	_____ _____ _____
Access Road Design <input type="checkbox"/> Road Crowning <input type="checkbox"/> Ditches <input type="checkbox"/> Turnouts <input type="checkbox"/> Culverts <input type="checkbox"/> Roadside Vegetated Filter Strips	Infiltration/Recharge	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____ _____ _____	_____ _____ _____ _____ _____
Stormwater Energy Dissipaters <input type="checkbox"/> Level Spreaders <input checked="" type="checkbox"/> Riprap Aprons <input type="checkbox"/> Upslope Diversions <input type="checkbox"/> Other _____	Infiltration/Recharge	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input checked="" type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ <u>97,774</u> cf _____ _____	_____ <u>18.46</u> _____ _____

g. Critical PCSM Plan stages

Identify and list critical stages of implementation of the PCSM Plan for which a licensed professional or designee shall be present on site.

1. Engineer shall inspect installation and stabilization of swales, retaining wall, rock filters, stormwater manholes/inlets and riprap aprons.
2. Engineer shall inspect the basin installation and temporary outlet control structure.
3. Engineer shall inspect grading prior to final elevation.
4. Engineer shall inspect culvert installation.
5. Engineer shall inspect final stabilization prior to removal of temporary measures.

**NOTICE OF INTENT (NOI) FOR COVERAGE UNDER THE EROSION AND SEDIMENT CONTROL
 GENERAL PERMIT (ESCGP-3) FOR EARTH DISTURBANCE ASSOCIATED WITH OIL AND GAS
 EXPLORATION, PRODUCTION, PROCESSING, OR TREATMENT OPERATIONS OR
 TRANSMISSION FACILITIES**

TABLES IN ADDENDUM OF NOI

SECTION H. POST CONSTRUCTION STORMWATER MANAGEMENT (PCSM) PLAN BMPs

TCO & UGI-LEH Interconnects

e. Summary Table for Supporting Calculation and Measurement Data
 (See NOI Instructions for additional guidance with this section)
 The remainder of this section (Summary Table for Calculation and Measurement Data) does not need to be completed for areas of projects involving oil and gas activities authorized by Chapter 78 or Chapter 78a (well pads) or pipelines and other similar utility infrastructure which will be restored to meadow in good condition or better or existing conditions.

Watershed Name: East Branch of Saucon Creek			
Volume Control design storm frequency _____ 2-year _____ Rainfall amount <u>3.19</u> inches	Pre-construction	Post Construction	Net Change
Impervious area (acres)	0.320	1.730	+1.410
Volume of stormwater runoff (acre- feet) without planned stormwater BMPs	0.320	0.620	+0.030
Volume of stormwater runoff (acre- feet) with planned stormwater BMPs		0.294	-0.026
Stormwater discharge rate for the design frequency storm	Pre-construction	Post Construction	Net Change
1) 2-Year/24-Hour	2.91 cfs	2.33 cfs	-0.58 cfs
2) 10-Year/24-Hour	7.33 cfs	4.74 cfs	-2.59 cfs
3) 50-year/24-Hour	13.99 cfs	11.51 cfs	-2.48 cfs
4) 100-year/24-Hour	17.72 cfs	15.90 cfs	-1.82 cfs

f. Summary Description of PCSM/SR BMPs

In the lists below, check the BMPs identified in the PCSM Plan. The primary function(s) of the BMP listed in the functions column (infiltration/recharge; detention/retention; water quality). Additional functions may be added if applicable to that BMP. List the stormwater volume and area of runoff to be treated by each BMP type when calculations are required. If any BMP in the PCSM/SR Plan is not listed below, describe it in the space provided after "Other". A summary table with infiltration testing information (Attachment E, included in the NOI Instructions) must be submitted for all Bio-infiltration BMPs included in PCSM/SR plan.

For Rate control provide the volume of stormwater treated and acres treated for the 100-year/24-hour storm event.

For volume control and water quality provide the volume of stormwater treated and acres treated for the 2-year/24-hour storm event.

Key for BMP purpose(s): VC = Volume Control; RC = Rate Control; and WQ = Water Quality

BMP	Function(s)	Purpose(s)	Volume of stormwater treated	Acres treated
Site Restoration ONLY <input type="checkbox"/> Restore Site to Meadow in Good Condition or Better, or Existing Conditions	Infiltration/Recharge Detention/WQ Treatment	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____	_____

Bio-infiltration areas <input type="checkbox"/> Infiltration Trench <input type="checkbox"/> Infiltration Bed <input checked="" type="checkbox"/> Infiltration Basin <input type="checkbox"/> Rain Garden/ Bioretention <input type="checkbox"/> Infiltration Berm	Infiltration/Recharge	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input checked="" type="checkbox"/> VC <input checked="" type="checkbox"/> RC <input checked="" type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ <u>13,750</u> cf _____ _____	_____ _____ <u>3.79</u> _____ _____
Natural Area Conservation <input type="checkbox"/> Streamside Buffer Zone <input type="checkbox"/> Wetland Buffer Zone <input type="checkbox"/> Sensitive Area Buffer Zone <input type="checkbox"/> Pre-Construction Drainage Pattern Intact	Infiltration/Recharge	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____ _____	_____ _____ _____ _____
Stormwater Retention <input type="checkbox"/> Constructed Wetlands <input type="checkbox"/> Wet Ponds <input type="checkbox"/> Retention Basin	Detention/Retention	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____	_____ _____ _____
Sediment and Pollutant Removal <input type="checkbox"/> Vegetated Filter Strips <input type="checkbox"/> Compost Filter Sock <input type="checkbox"/> Detention Basins	Water Quality Treatment	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____	_____ _____ _____
Access Road Design <input type="checkbox"/> Road Crowning <input type="checkbox"/> Ditches <input type="checkbox"/> Turnouts <input type="checkbox"/> Culverts <input type="checkbox"/> Roadside Vegetated Filter Strips	Infiltration/Recharge	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____ _____ _____	_____ _____ _____ _____ _____
Stormwater Energy Dissipaters <input type="checkbox"/> Level Spreaders <input type="checkbox"/> Riprap Aprons <input type="checkbox"/> Upslope Diversions <input type="checkbox"/> Other _____	Infiltration/Recharge	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____ _____	_____ _____ _____ _____

g. Critical PCSM Plan stages

Identify and list critical stages of implementation of the PCSM Plan for which a licensed professional or designee shall be present on site.

1. Engineer shall inspect installation of sediment traps and compost filter socks prior to clearing and grubbing.
2. Engineer shall inspect site prior to raising grade around CB-1 and CB-2 to final grade and removing the plug pipe from CS-3, stormwater piping shall be cleaned.

**NOTICE OF INTENT (NOI) FOR COVERAGE UNDER THE EROSION AND SEDIMENT CONTROL
 GENERAL PERMIT (ESCGP-3) FOR EARTH DISTURBANCE ASSOCIATED WITH OIL AND GAS
 EXPLORATION, PRODUCTION, PROCESSING, OR TREATMENT OPERATIONS OR
 TRANSMISSION FACILITIES**

TABLES IN ADDENDUM OF NOI

SECTION H. POST CONSTRUCTION STORMWATER MANAGEMENT (PCSM) PLAN BMPs

Hellertown Launcher

e. Summary Table for Supporting Calculation and Measurement Data
 (See NOI Instructions for additional guidance with this section)
 The remainder of this section (Summary Table for Calculation and Measurement Data) does not need to be completed for areas of projects involving oil and gas activities authorized by Chapter 78 or Chapter 78a (well pads) or pipelines and other similar utility infrastructure which will be restored to meadow in good condition or better or existing conditions.

Watershed Name: Lehigh River			
Volume Control design storm frequency _____ 2-year _____ Rainfall amount <u>3.18</u> inches	Pre-construction	Post Construction	Net Change
Impervious area (acres)	0.310	0.860	+0.550
Volume of stormwater runoff (acre- feet) without planned stormwater BMPs	0.238	0.331	+0.093
Volume of stormwater runoff (acre- feet) with planned stormwater BMPs		0.139	-0.099
Stormwater discharge rate for the design frequency storm	Pre-construction	Post Construction	Net Change
1) 2-Year/24-Hour	3.94 cfs	2.06 cfs	-1.88 cfs
2) 10-Year/24-Hour	8.32 cfs	5.40 cfs	-2.92 cfs
3) 50-year/24-Hour	14.35 cfs	9.26 cfs	-5.09 cfs
4) 100-year/24-Hour	17.44 cfs	11.11 cfs	-6.33 cfs

f. Summary Description of PCSM/SR BMPs

In the lists below, check the BMPs identified in the PCSM Plan. The primary function(s) of the BMP listed in the functions column (infiltration/recharge; detention/retention; water quality). Additional functions may be added if applicable to that BMP. List the stormwater volume and area of runoff to be treated by each BMP type when calculations are required. If any BMP in the PCSM/SR Plan is not listed below, describe it in the space provided after "Other". A summary table with infiltration testing information (Attachment E, included in the NOI Instructions) must be submitted for all Bio-infiltration BMPs included in PCSM/SR plan.

For Rate control provide the volume of stormwater treated and acres treated for the 100-year/24-hour storm event.

For volume control and water quality provide the volume of stormwater treated and acres treated for the 2-year/24-hour storm event.

Key for BMP purpose(s): VC = Volume Control; RC = Rate Control; and WQ = Water Quality

BMP	Function(s)	Purpose(s)	Volume of stormwater treated	Acres treated
Site Restoration ONLY <input type="checkbox"/> Restore Site to Meadow in Good Condition or Better, or Existing Conditions	Infiltration/Recharge Detention/WQ Treatment	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____	_____

Bio-infiltration areas <input type="checkbox"/> Infiltration Trench <input type="checkbox"/> Infiltration Bed <input checked="" type="checkbox"/> Infiltration Basin <input type="checkbox"/> Rain Garden/ Bioretention <input checked="" type="checkbox"/> Infiltration Berm	Infiltration/Recharge	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input checked="" type="checkbox"/> VC <input checked="" type="checkbox"/> RC <input checked="" type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input checked="" type="checkbox"/> VC <input type="checkbox"/> RC <input checked="" type="checkbox"/> WQ	_____ _____ <u>4,876 CF</u> _____ <u>3,480 CF</u>	_____ _____ <u>1.47</u> _____ <u>0.41</u>
Natural Area Conservation <input type="checkbox"/> Streamside Buffer Zone <input type="checkbox"/> Wetland Buffer Zone <input type="checkbox"/> Sensitive Area Buffer Zone <input type="checkbox"/> Pre-Construction Drainage Pattern Intact	Infiltration/Recharge	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____ _____	_____ _____ _____ _____
Stormwater Retention <input type="checkbox"/> Constructed Wetlands <input type="checkbox"/> Wet Ponds <input type="checkbox"/> Retention Basin	Detention/Retention	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____	_____ _____ _____
Sediment and Pollutant Removal <input type="checkbox"/> Vegetated Filter Strips <input type="checkbox"/> Compost Filter Sock <input type="checkbox"/> Detention Basins	Water Quality Treatment	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____	_____ _____ _____
Access Road Design <input type="checkbox"/> Road Crowning <input type="checkbox"/> Ditches <input type="checkbox"/> Turnouts <input type="checkbox"/> Culverts <input type="checkbox"/> Roadside Vegetated Filter Strips	Infiltration/Recharge	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____ _____ _____	_____ _____ _____ _____ _____
Stormwater Energy Dissipaters <input checked="" type="checkbox"/> Level Spreaders <input type="checkbox"/> Riprap Aprons <input type="checkbox"/> Upslope Diversions <input type="checkbox"/> Other _____	Infiltration/Recharge	<input type="checkbox"/> VC <input checked="" type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ <u>4,876 CF</u> _____ _____	_____ _____ <u>1.47</u> _____ _____

g. Critical PCSM Plan stages

Identify and list critical stages of implementation of the PCSM Plan for which a licensed professional or designee shall be present on site.

1. Inspect installation and stabilization of diversion berm and erosion control blanket.
2. Engineer shall inspect the basin installation and temporary outlet control structure.
3. Engineer shall inspect final stabilization prior to removal of temporary measures.

**NOTICE OF INTENT (NOI) FOR COVERAGE UNDER THE EROSION AND SEDIMENT CONTROL
 GENERAL PERMIT (ESCGP-3) FOR EARTH DISTURBANCE ASSOCIATED WITH OIL AND GAS
 EXPLORATION, PRODUCTION, PROCESSING, OR TREATMENT OPERATIONS OR
 TRANSMISSION FACILITIES**

TABLES IN ADDENDUM OF NOI

SECTION H. POST CONSTRUCTION STORMWATER MANAGEMENT (PCSM) PLAN BMPs

Blue Mountain Interconnect

e. Summary Table for Supporting Calculation and Measurement Data
 (See NOI Instructions for additional guidance with this section)
 The remainder of this section (Summary Table for Calculation and Measurement Data) does not need to be completed for areas of projects involving oil and gas activities authorized by Chapter 78 or Chapter 78a (well pads) or pipelines and other similar utility infrastructure which will be restored to meadow in good condition or better or existing conditions.

Watershed Name: Aquashicola Creek			
Volume Control design storm frequency _____ 2-year _____ Rainfall amount <u>3.15</u> inches	Pre-construction	Post Construction	Net Change
Impervious area (acres)	0.150	0.230	+0.080
Volume of stormwater runoff (acre- feet) without planned stormwater BMPs	0.239	0.274	+0.035
Volume of stormwater runoff (acre- feet) with planned stormwater BMPs		0.238	-0.001
Stormwater discharge rate for the design frequency storm	Pre-construction	Post Construction	Net Change
1) 2-Year/24-Hour	1.78 cfs	1.62 cfs	-0.16 cfs
2) 10-Year/24-Hour	5.17 cfs	4.57 cfs	-0.60 cfs
3) 50-year/24-Hour	12.92 cfs	11.93 cfs	-0.99 cfs
4) 100-year/24-Hour	17.83 cfs	17.22 cfs	-0.61 cfs

f. Summary Description of PCSM/SR BMPs

In the lists below, check the BMPs identified in the PCSM Plan. The primary function(s) of the BMP listed in the functions column (infiltration/recharge; detention/retention; water quality). Additional functions may be added if applicable to that BMP. List the stormwater volume and area of runoff to be treated by each BMP type when calculations are required. If any BMP in the PCSM/SR Plan is not listed below, describe it in the space provided after "Other". A summary table with infiltration testing information (Attachment E, included in the NOI Instructions) must be submitted for all Bio-infiltration BMPs included in PCSM/SR plan.

For Rate control provide the volume of stormwater treated and acres treated for the 100-year/24-hour storm event.

For volume control and water quality provide the volume of stormwater treated and acres treated for the 2-year/24-hour storm event.

Key for BMP purpose(s): VC = Volume Control; RC = Rate Control; and WQ = Water Quality

BMP	Function(s)	Purpose(s)	Volume of stormwater treated	Acres treated
Site Restoration ONLY <input type="checkbox"/> Restore Site to Meadow in Good Condition or Better, or Existing Conditions	Infiltration/Recharge Detention/WQ Treatment	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____	_____

Bio-infiltration areas <input type="checkbox"/> Infiltration Trench <input checked="" type="checkbox"/> Infiltration Bed <input checked="" type="checkbox"/> Infiltration Basin <input type="checkbox"/> Rain Garden/ Bioretention <input type="checkbox"/> Infiltration Berm	Infiltration/Recharge	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input checked="" type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input checked="" type="checkbox"/> VC <input checked="" type="checkbox"/> RC <input checked="" type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ <u>914 cf</u> <u>673 cf</u> _____ _____	_____ <u>0.95</u> <u>0.95</u> _____ _____
Natural Area Conservation <input type="checkbox"/> Streamside Buffer Zone <input type="checkbox"/> Wetland Buffer Zone <input type="checkbox"/> Sensitive Area Buffer Zone <input type="checkbox"/> Pre-Construction Drainage Pattern Intact	Infiltration/Recharge	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____ _____	_____ _____ _____ _____
Stormwater Retention <input type="checkbox"/> Constructed Wetlands <input type="checkbox"/> Wet Ponds <input type="checkbox"/> Retention Basin	Detention/Retention	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____	_____ _____ _____
Sediment and Pollutant Removal <input type="checkbox"/> Vegetated Filter Strips <input type="checkbox"/> Compost Filter Sock <input type="checkbox"/> Detention Basins	Water Quality Treatment	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____	_____ _____ _____
Access Road Design <input type="checkbox"/> Road Crowning <input type="checkbox"/> Ditches <input type="checkbox"/> Turnouts <input type="checkbox"/> Culverts <input type="checkbox"/> Roadside Vegetated Filter Strips	Infiltration/Recharge	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____ _____ _____	_____ _____ _____ _____ _____
Stormwater Energy Dissipaters <input checked="" type="checkbox"/> Level Spreaders <input type="checkbox"/> Riprap Aprons <input type="checkbox"/> Upslope Diversions <input type="checkbox"/> Other _____	Infiltration/Recharge	<input type="checkbox"/> VC <input checked="" type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ <u>1,587 cf</u> _____ _____	_____ <u>0.95</u> _____ _____

g. Critical PCSM Plan stages

Identify and list critical stages of implementation of the PCSM Plan for which a licensed professional or designee shall be present on site.

1. Engineer will inspect installation of compost sock sediment traps and compost filter socks prior to start of clearing and grubbing.
2. Final inspection of installed subsurface infiltration system before backfilling.

**NOTICE OF INTENT (NOI) FOR COVERAGE UNDER THE EROSION AND SEDIMENT CONTROL
 GENERAL PERMIT (ESCGP-3) FOR EARTH DISTURBANCE ASSOCIATED WITH OIL AND GAS
 EXPLORATION, PRODUCTION, PROCESSING, OR TREATMENT OPERATIONS OR
 TRANSMISSION FACILITIES**

TABLES IN ADDENDUM OF NOI

SECTION H. POST CONSTRUCTION STORMWATER MANAGEMENT (PCSM) PLAN BMPs

Blue Mountain Side Valve

e. Summary Table for Supporting Calculation and Measurement Data
 (See NOI Instructions for additional guidance with this section)
 The remainder of this section (Summary Table for Calculation and Measurement Data) does not need to be completed for areas of projects involving oil and gas activities authorized by Chapter 78 or Chapter 78a (well pads) or pipelines and other similar utility infrastructure which will be restored to meadow in good condition or better or existing conditions.

Watershed Name: Aquashicola Creek			
Volume Control design storm frequency <u>2-year</u> Rainfall amount <u>3.15</u> inches	Pre-construction	Post Construction	Net Change
Impervious area (acres)	0.000	0.050	+0.050
Volume of stormwater runoff (acre- feet) without planned stormwater BMPs	0.040	0.054	+0.014
Volume of stormwater runoff (acre- feet) with planned stormwater BMPs		0.024	-0.016
Stormwater discharge rate for the design frequency storm	Pre-construction	Post Construction	Net Change
1) 2-Year/24-Hour	0.74 cfs	0.34 cfs	-0.40 cfs
2) 10-Year/24-Hour	1.67 cfs	0.75 cfs	-0.92 cfs
3) 50-year/24-Hour	3.17 cfs	2.18 cfs	-0.99 cfs
4) 100-year/24-Hour	4.04 cfs	3.50 cfs	-0.54 cfs

f. Summary Description of PCSM/SR BMPs

In the lists below, check the BMPs identified in the PCSM Plan. The primary function(s) of the BMP listed in the functions column (infiltration/recharge; detention/retention; water quality). Additional functions may be added if applicable to that BMP. List the stormwater volume and area of runoff to be treated by each BMP type when calculations are required. If any BMP in the PCSM/SR Plan is not listed below, describe it in the space provided after "Other". A summary table with infiltration testing information (Attachment E, included in the NOI Instructions) must be submitted for all Bio-infiltration BMPs included in PCSM/SR plan.

For Rate control provide the volume of stormwater treated and acres treated for the 100-year/24-hour storm event.

For volume control and water quality provide the volume of stormwater treated and acres treated for the 2-year/24-hour storm event.

Key for BMP purpose(s): VC = Volume Control; RC = Rate Control; and WQ = Water Quality

BMP	Function(s)	Purpose(s)	Volume of stormwater treated	Acres treated
Site Restoration ONLY <input type="checkbox"/> Restore Site to Meadow in Good Condition or Better, or Existing Conditions	Infiltration/Recharge Detention/WQ Treatment	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____	_____

Bio-infiltration areas <input type="checkbox"/> Infiltration Trench <input type="checkbox"/> Infiltration Bed <input checked="" type="checkbox"/> Infiltration Basin <input type="checkbox"/> Rain Garden/ Bioretention <input type="checkbox"/> Infiltration Berm	Infiltration/Recharge	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input checked="" type="checkbox"/> VC <input checked="" type="checkbox"/> RC <input checked="" type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ <u>1,324 cf</u> _____ _____	_____ _____ <u>0.61</u> _____ _____
Natural Area Conservation <input type="checkbox"/> Streamside Buffer Zone <input type="checkbox"/> Wetland Buffer Zone <input type="checkbox"/> Sensitive Area Buffer Zone <input type="checkbox"/> Pre-Construction Drainage Pattern Intact	Infiltration/Recharge	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____ _____	_____ _____ _____ _____
Stormwater Retention <input type="checkbox"/> Constructed Wetlands <input type="checkbox"/> Wet Ponds <input type="checkbox"/> Retention Basin	Detention/Retention	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____	_____ _____ _____
Sediment and Pollutant Removal <input type="checkbox"/> Vegetated Filter Strips <input type="checkbox"/> Compost Filter Sock <input type="checkbox"/> Detention Basins	Water Quality Treatment	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____	_____ _____ _____
Access Road Design <input type="checkbox"/> Road Crowning <input type="checkbox"/> Ditches <input type="checkbox"/> Turnouts <input type="checkbox"/> Culverts <input type="checkbox"/> Roadside Vegetated Filter Strips	Infiltration/Recharge	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____ _____ _____	_____ _____ _____ _____ _____
Stormwater Energy Dissipaters <input checked="" type="checkbox"/> Level Spreaders <input type="checkbox"/> Riprap Aprons <input type="checkbox"/> Upslope Diversions <input type="checkbox"/> Other _____	Infiltration/Recharge	<input type="checkbox"/> VC <input checked="" type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ <u>1,324 cf</u> _____ _____	_____ _____ <u>0.61</u> _____ _____

g. Critical PCSM Plan stages

Identify and list critical stages of implementation of the PCSM Plan for which a licensed professional or designee shall be present on site.

1. Inspection of sediment trap, compost filter socks, riprap outlet protection post installation.
2. Final inspection of installed subsurface infiltration system prior to backfilling.

**NOTICE OF INTENT (NOI) FOR COVERAGE UNDER THE EROSION AND SEDIMENT CONTROL
 GENERAL PERMIT (ESCGP-3) FOR EARTH DISTURBANCE ASSOCIATED WITH OIL AND GAS
 EXPLORATION, PRODUCTION, PROCESSING, OR TREATMENT OPERATIONS OR
 TRANSMISSION FACILITIES**

TABLES IN ADDENDUM OF NOI

SECTION H. POST CONSTRUCTION STORMWATER MANAGEMENT (PCSM) PLAN BMPs

Mainline Block Valve 1

e. Summary Table for Supporting Calculation and Measurement Data
 (See NOI Instructions for additional guidance with this section)
 The remainder of this section (Summary Table for Calculation and Measurement Data) does not need to be completed for areas of projects involving oil and gas activities authorized by Chapter 78 or Chapter 78a (well pads) or pipelines and other similar utility infrastructure which will be restored to meadow in good condition or better or existing conditions.

Watershed Name: Susquehanna River			
Volume Control design storm frequency <u>2-year</u> Rainfall amount <u>2.57</u> inches	Pre-construction	Post Construction	Net Change
Impervious area (acres)	0.045	0.050	+0.005
Volume of stormwater runoff (acre- feet) without planned stormwater BMPs	0.021	0.023	+0.002
Volume of stormwater runoff (acre- feet) with planned stormwater BMPs		0.015	-0.006
Stormwater discharge rate for the design frequency storm	Pre-construction	Post Construction	Net Change
1) 2-Year/24-Hour	0.321 cfs	0.281 cfs	-0.04 cfs
2) 10-Year/24-Hour	0.595 cfs	0.527 cfs	-0.068 cfs
3) 50-year/24-Hour	1.024 cfs	0.913 cfs	-0.111 cfs
4) 100-year/24-Hour	1.275 cfs	1.140 cfs	-0.135 cfs

f. Summary Description of PCSM/SR BMPs

In the lists below, check the BMPs identified in the PCSM Plan. The primary function(s) of the BMP listed in the functions column (infiltration/recharge; detention/retention; water quality). Additional functions may be added if applicable to that BMP. List the stormwater volume and area of runoff to be treated by each BMP type when calculations are required. If any BMP in the PCSM/SR Plan is not listed below, describe it in the space provided after "Other". A summary table with infiltration testing information (Attachment E, included in the NOI Instructions) must be submitted for all Bio-infiltration BMPs included in PCSM/SR plan.

For Rate control provide the volume of stormwater treated and acres treated for the 100-year/24-hour storm event.

For volume control and water quality provide the volume of stormwater treated and acres treated for the 2-year/24-hour storm event.

Key for BMP purpose(s): VC = Volume Control; RC = Rate Control; and WQ = Water Quality

BMP	Function(s)	Purpose(s)	Volume of stormwater treated	Acres treated
Site Restoration ONLY <input type="checkbox"/> Restore Site to Meadow in Good Condition or Better, or Existing Conditions	Infiltration/Recharge Detention/WQ Treatment	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____	_____

Bio-infiltration areas <input checked="" type="checkbox"/> Infiltration Trench <input type="checkbox"/> Infiltration Bed <input type="checkbox"/> Infiltration Basin <input type="checkbox"/> Rain Garden/ Bioretention <input type="checkbox"/> Infiltration Berm	Infiltration/Recharge	<input checked="" type="checkbox"/> VC <input checked="" type="checkbox"/> RC <input checked="" type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	<u>336 cf</u> _____ _____ _____ _____	<u>0.06</u> _____ _____ _____ _____
Natural Area Conservation <input type="checkbox"/> Streamside Buffer Zone <input type="checkbox"/> Wetland Buffer Zone <input type="checkbox"/> Sensitive Area Buffer Zone <input type="checkbox"/> Pre-Construction Drainage Pattern Intact	Infiltration/Recharge	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____ _____	_____ _____ _____ _____
Stormwater Retention <input type="checkbox"/> Constructed Wetlands <input type="checkbox"/> Wet Ponds <input type="checkbox"/> Retention Basin	Detention/Retention	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____	_____ _____ _____
Sediment and Pollutant Removal <input type="checkbox"/> Vegetated Filter Strips <input type="checkbox"/> Compost Filter Sock <input type="checkbox"/> Detention Basins	Water Quality Treatment	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____	_____ _____ _____
Access Road Design <input type="checkbox"/> Road Crowning <input type="checkbox"/> Ditches <input type="checkbox"/> Turnouts <input type="checkbox"/> Culverts <input type="checkbox"/> Roadside Vegetated Filter Strips	Infiltration/Recharge	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____ _____ _____	_____ _____ _____ _____ _____
Stormwater Energy Dissipaters <input type="checkbox"/> Level Spreaders <input type="checkbox"/> Riprap Aprons <input type="checkbox"/> Upslope Diversions <input type="checkbox"/> Other _____	Infiltration/Recharge	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____ _____	_____ _____ _____ _____

g. Critical PCSM Plan stages

Identify and list critical stages of implementation of the PCSM Plan for which a licensed professional or designee shall be present on site.

1. Engineer shall inspect the subsurface infiltration facility prior to backfilling.
2. Engineer shall inspect final stabilization prior to removal of temporary measures.

**NOTICE OF INTENT (NOI) FOR COVERAGE UNDER THE EROSION AND SEDIMENT CONTROL
 GENERAL PERMIT (ESCGP-3) FOR EARTH DISTURBANCE ASSOCIATED WITH OIL AND GAS
 EXPLORATION, PRODUCTION, PROCESSING, OR TREATMENT OPERATIONS OR
 TRANSMISSION FACILITIES**

TABLES IN ADDENDUM OF NOI

SECTION H. POST CONSTRUCTION STORMWATER MANAGEMENT (PCSM) PLAN BMPs

Mainline Block Valve 2

e. Summary Table for Supporting Calculation and Measurement Data
 (See NOI Instructions for additional guidance with this section)
 The remainder of this section (Summary Table for Calculation and Measurement Data) does not need to be completed for areas of projects involving oil and gas activities authorized by Chapter 78 or Chapter 78a (well pads) or pipelines and other similar utility infrastructure which will be restored to meadow in good condition or better or existing conditions.

Watershed Name: Bear Creek			
Volume Control design storm frequency <u>2-year</u> Rainfall amount <u>3.20</u> inches	Pre-construction	Post Construction	Net Change
Impervious area (acres)	0.020	0.060	+0.040
Volume of stormwater runoff (acre- feet) without planned stormwater BMPs	0.033	0.041	+0.008
Volume of stormwater runoff (acre- feet) with planned stormwater BMPs		0.033	0.000
Stormwater discharge rate for the design frequency storm	Pre-construction	Post Construction	Net Change
1) 2-Year/24-Hour	0.403 cfs	0.297 cfs	-0.106 cfs
2) 10-Year/24-Hour	0.819 cfs	0.718 cfs	-0.101 cfs
3) 50-year/24-Hour	1.481 cfs	1.308 cfs	-0.173 cfs
4) 100-year/24-Hour	1.882 cfs	1.630 cfs	-0.252 cfs

f. Summary Description of PCSM/SR BMPs

In the lists below, check the BMPs identified in the PCSM Plan. The primary function(s) of the BMP listed in the functions column (infiltration/recharge; detention/retention; water quality). Additional functions may be added if applicable to that BMP. List the stormwater volume and area of runoff to be treated by each BMP type when calculations are required. If any BMP in the PCSM/SR Plan is not listed below, describe it in the space provided after "Other". A summary table with infiltration testing information (Attachment E, included in the NOI Instructions) must be submitted for all Bio-infiltration BMPs included in PCSM/SR plan.

For Rate control provide the volume of stormwater treated and acres treated for the 100-year/24-hour storm event.

For volume control and water quality provide the volume of stormwater treated and acres treated for the 2-year/24-hour storm event.

Key for BMP purpose(s): VC = Volume Control; RC = Rate Control; and WQ = Water Quality

BMP	Function(s)	Purpose(s)	Volume of stormwater treated	Acres treated
Site Restoration ONLY <input type="checkbox"/> Restore Site to Meadow in Good Condition or Better, or Existing Conditions	Infiltration/Recharge Detention/WQ Treatment	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____	_____

Bio-infiltration areas <input checked="" type="checkbox"/> Infiltration Trench <input type="checkbox"/> Infiltration Bed <input type="checkbox"/> Infiltration Basin <input type="checkbox"/> Rain Garden/ Bioretention <input type="checkbox"/> Infiltration Berm	Infiltration/Recharge	<input checked="" type="checkbox"/> VC <input checked="" type="checkbox"/> RC <input checked="" type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	352 cf _____ _____ _____ _____	0.09 _____ _____ _____ _____
Natural Area Conservation <input type="checkbox"/> Streamside Buffer Zone <input type="checkbox"/> Wetland Buffer Zone <input type="checkbox"/> Sensitive Area Buffer Zone <input type="checkbox"/> Pre-Construction Drainage Pattern Intact	Infiltration/Recharge	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____ _____	_____ _____ _____ _____
Stormwater Retention <input type="checkbox"/> Constructed Wetlands <input type="checkbox"/> Wet Ponds <input type="checkbox"/> Retention Basin	Detention/Retention	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____	_____ _____ _____
Sediment and Pollutant Removal <input type="checkbox"/> Vegetated Filter Strips <input type="checkbox"/> Compost Filter Sock <input type="checkbox"/> Detention Basins	Water Quality Treatment	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____	_____ _____ _____
Access Road Design <input type="checkbox"/> Road Crowning <input type="checkbox"/> Ditches <input type="checkbox"/> Turnouts <input type="checkbox"/> Culverts <input type="checkbox"/> Roadside Vegetated Filter Strips	Infiltration/Recharge	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____ _____ _____	_____ _____ _____ _____ _____
Stormwater Energy Dissipaters <input type="checkbox"/> Level Spreaders <input type="checkbox"/> Riprap Aprons <input type="checkbox"/> Upslope Diversions <input type="checkbox"/> Other _____	Infiltration/Recharge	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____ _____	_____ _____ _____ _____

g. Critical PCSM Plan stages

Identify and list critical stages of implementation of the PCSM Plan for which a licensed professional or designee shall be present on site.

1. Engineer shall inspect the subsurface infiltration facilities prior to backfilling.
2. Engineer shall inspect final stabilization prior to removal of temporary measures.

**NOTICE OF INTENT (NOI) FOR COVERAGE UNDER THE EROSION AND SEDIMENT CONTROL
 GENERAL PERMIT (ESCGP-3) FOR EARTH DISTURBANCE ASSOCIATED WITH OIL AND GAS
 EXPLORATION, PRODUCTION, PROCESSING, OR TREATMENT OPERATIONS OR
 TRANSMISSION FACILITIES**

TABLES IN ADDENDUM OF NOI

SECTION H. POST CONSTRUCTION STORMWATER MANAGEMENT (PCSM) PLAN BMPs

Mainline Block Valve 3

e. Summary Table for Supporting Calculation and Measurement Data
 (See NOI Instructions for additional guidance with this section)
 The remainder of this section (Summary Table for Calculation and Measurement Data) does not need to be completed for areas of projects involving oil and gas activities authorized by Chapter 78 or Chapter 78a (well pads) or pipelines and other similar utility infrastructure which will be restored to meadow in good condition or better or existing conditions.

Watershed Name: Lehigh River			
Volume Control design storm frequency _____ 2-year Rainfall amount <u>3.29</u> inches	Pre-construction	Post Construction	Net Change
Impervious area (acres)	0.000	0.040	+0.040
Volume of stormwater runoff (acre-feet) without planned stormwater BMPs	0.001	0.011	+0.01
Volume of stormwater runoff (acre-feet) with planned stormwater BMPs		0.00	-0.001
Stormwater discharge rate for the design frequency storm	Pre-construction	Post Construction	Net Change
1) 2-Year/24-Hour	0.000 cfs	0.000 cfs	0.000 cfs
2) 10-Year/24-Hour	0.000 cfs	0.000 cfs	0.000 cfs
3) 50-year/24-Hour	0.004 cfs	0.002 cfs	-0.002 cfs
4) 100-year/24-Hour	0.031 cfs	0.014 cfs	-0.017 cfs

f. Summary Description of PCSM/SR BMPs

In the lists below, check the BMPs identified in the PCSM Plan. The primary function(s) of the BMP listed in the functions column (infiltration/recharge; detention/retention; water quality). Additional functions may be added if applicable to that BMP. List the stormwater volume and area of runoff to be treated by each BMP type when calculations are required. If any BMP in the PCSM/SR Plan is not listed below, describe it in the space provided after "Other". A summary table with infiltration testing information (Attachment E, included in the NOI Instructions) must be submitted for all Bio-infiltration BMPs included in PCSM/SR plan.

For Rate control provide the volume of stormwater treated and acres treated for the 100-year/24-hour storm event.

For volume control and water quality provide the volume of stormwater treated and acres treated for the 2-year/24-hour storm event.

Key for BMP purpose(s): VC = Volume Control; RC = Rate Control; and WQ = Water Quality

BMP	Function(s)	Purpose(s)	Volume of stormwater treated	Acres treated
Site Restoration ONLY <input type="checkbox"/> Restore Site to Meadow in Good Condition or Better, or Existing Conditions	Infiltration/Recharge Detention/WQ Treatment	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____	_____

Bio-infiltration areas <input checked="" type="checkbox"/> Infiltration Trench <input type="checkbox"/> Infiltration Bed <input type="checkbox"/> Infiltration Basin <input type="checkbox"/> Rain Garden/ Bioretention <input type="checkbox"/> Infiltration Berm	Infiltration/Recharge	<input checked="" type="checkbox"/> VC <input checked="" type="checkbox"/> RC <input checked="" type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	1,416 cf _____ _____ _____ _____	0.08 _____ _____ _____ _____
Natural Area Conservation <input type="checkbox"/> Streamside Buffer Zone <input type="checkbox"/> Wetland Buffer Zone <input type="checkbox"/> Sensitive Area Buffer Zone <input type="checkbox"/> Pre-Construction Drainage Pattern Intact	Infiltration/Recharge	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____ _____	_____ _____ _____ _____
Stormwater Retention <input type="checkbox"/> Constructed Wetlands <input type="checkbox"/> Wet Ponds <input type="checkbox"/> Retention Basin	Detention/Retention	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____	_____ _____ _____
Sediment and Pollutant Removal <input type="checkbox"/> Vegetated Filter Strips <input type="checkbox"/> Compost Filter Sock <input type="checkbox"/> Detention Basins	Water Quality Treatment	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____	_____ _____ _____
Access Road Design <input type="checkbox"/> Road Crowning <input type="checkbox"/> Ditches <input type="checkbox"/> Turnouts <input type="checkbox"/> Culverts <input type="checkbox"/> Roadside Vegetated Filter Strips	Infiltration/Recharge	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____ _____ _____	_____ _____ _____ _____ _____
Stormwater Energy Dissipaters <input type="checkbox"/> Level Spreaders <input type="checkbox"/> Riprap Aprons <input type="checkbox"/> Upslope Diversions <input type="checkbox"/> Other _____	Infiltration/Recharge	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____ _____	_____ _____ _____ _____

g. Critical PCSM Plan stages

Identify and list critical stages of implementation of the PCSM Plan for which a licensed professional or designee shall be present on site.

1. Engineer shall inspect the subsurface infiltration facility prior to backfilling.
2. Engineer shall inspect final stabilization prior to removal of temporary measures.

**NOTICE OF INTENT (NOI) FOR COVERAGE UNDER THE EROSION AND SEDIMENT CONTROL
 GENERAL PERMIT (ESCGP-3) FOR EARTH DISTURBANCE ASSOCIATED WITH OIL AND GAS
 EXPLORATION, PRODUCTION, PROCESSING, OR TREATMENT OPERATIONS OR
 TRANSMISSION FACILITIES**

TABLES IN ADDENDUM OF NOI

SECTION H. POST CONSTRUCTION STORMWATER MANAGEMENT (PCSM) PLAN BMPs

Mainline Block Valve 4

e. Summary Table for Supporting Calculation and Measurement Data
 (See NOI Instructions for additional guidance with this section)
 The remainder of this section (Summary Table for Calculation and Measurement Data) does not need to be completed for areas of projects involving oil and gas activities authorized by Chapter 78 or Chapter 78a (well pads) or pipelines and other similar utility infrastructure which will be restored to meadow in good condition or better or existing conditions.

Watershed Name: Aquashicola Creek			
Volume Control design storm frequency _____ 2-year _____ Rainfall amount <u>3.18</u> inches	Pre-construction	Post Construction	Net Change
Impervious area (acres)	0.010	0.060	+0.050
Volume of stormwater runoff (acre- feet) without planned stormwater BMPs	0.015	0.027	+0.012
Volume of stormwater runoff (acre- feet) with planned stormwater BMPs		0.013	-0.002
Stormwater discharge rate for the design frequency storm	Pre-construction	Post Construction	Net Change
1) 2-Year/24-Hour	0.185 cfs	0.180 cfs	-0.005 cfs
2) 10-Year/24-Hour	0.715 cfs	0.688 cfs	-0.027 cfs
3) 50-year/24-Hour	1.722 cfs	1.667 cfs	-0.055 cfs
4) 100-year/24-Hour	2.358 cfs	2.351 cfs	-0.007 cfs

f. Summary Description of PCSM/SR BMPs

In the lists below, check the BMPs identified in the PCSM Plan. The primary function(s) of the BMP listed in the functions column (infiltration/recharge; detention/retention; water quality). Additional functions may be added if applicable to that BMP. List the stormwater volume and area of runoff to be treated by each BMP type when calculations are required. If any BMP in the PCSM/SR Plan is not listed below, describe it in the space provided after "Other". A summary table with infiltration testing information (Attachment E, included in the NOI Instructions) must be submitted for all Bio-infiltration BMPs included in PCSM/SR plan.

For Rate control provide the volume of stormwater treated and acres treated for the 100-year/24-hour storm event.

For volume control and water quality provide the volume of stormwater treated and acres treated for the 2-year/24-hour storm event.

Key for BMP purpose(s): VC = Volume Control; RC = Rate Control; and WQ = Water Quality

BMP	Function(s)	Purpose(s)	Volume of stormwater treated	Acres treated
Site Restoration ONLY <input type="checkbox"/> Restore Site to Meadow in Good Condition or Better, or Existing Conditions	Infiltration/Recharge Detention/WQ Treatment	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____	_____

Bio-infiltration areas <input checked="" type="checkbox"/> Infiltration Trench <input type="checkbox"/> Infiltration Bed <input type="checkbox"/> Infiltration Basin <input type="checkbox"/> Rain Garden/ Bioretention <input type="checkbox"/> Infiltration Berm	Infiltration/Recharge	<input checked="" type="checkbox"/> VC <input checked="" type="checkbox"/> RC <input checked="" type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	606 cf _____ _____ _____ _____	0.06 _____ _____ _____ _____
Natural Area Conservation <input type="checkbox"/> Streamside Buffer Zone <input type="checkbox"/> Wetland Buffer Zone <input type="checkbox"/> Sensitive Area Buffer Zone <input type="checkbox"/> Pre-Construction Drainage Pattern Intact	Infiltration/Recharge	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____ _____	_____ _____ _____ _____
Stormwater Retention <input type="checkbox"/> Constructed Wetlands <input type="checkbox"/> Wet Ponds <input type="checkbox"/> Retention Basin	Detention/Retention	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____	_____ _____ _____
Sediment and Pollutant Removal <input type="checkbox"/> Vegetated Filter Strips <input type="checkbox"/> Compost Filter Sock <input type="checkbox"/> Detention Basins	Water Quality Treatment	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____	_____ _____ _____
Access Road Design <input type="checkbox"/> Road Crowning <input type="checkbox"/> Ditches <input type="checkbox"/> Turnouts <input type="checkbox"/> Culverts <input type="checkbox"/> Roadside Vegetated Filter Strips	Infiltration/Recharge	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____ _____ _____	_____ _____ _____ _____ _____
Stormwater Energy Dissipaters <input type="checkbox"/> Level Spreaders <input type="checkbox"/> Riprap Aprons <input type="checkbox"/> Upslope Diversions <input type="checkbox"/> Other _____	Infiltration/Recharge	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____ _____	_____ _____ _____ _____

g. Critical PCSM Plan stages

Identify and list critical stages of implementation of the PCSM Plan for which a licensed professional or designee shall be present on site.

1. Engineer shall inspect the subsurface infiltration facilities prior to backfilling.
2. Engineer shall inspect final stabilization prior to removal of temporary measures.

**NOTICE OF INTENT (NOI) FOR COVERAGE UNDER THE EROSION AND SEDIMENT CONTROL
 GENERAL PERMIT (ESCGP-3) FOR EARTH DISTURBANCE ASSOCIATED WITH OIL AND GAS
 EXPLORATION, PRODUCTION, PROCESSING, OR TREATMENT OPERATIONS OR
 TRANSMISSION FACILITIES**

TABLES IN ADDENDUM OF NOI

SECTION H. POST CONSTRUCTION STORMWATER MANAGEMENT (PCSM) PLAN BMPs

Mainline Block Valve 6

e. Summary Table for Supporting Calculation and Measurement Data
 (See NOI Instructions for additional guidance with this section)
 The remainder of this section (Summary Table for Calculation and Measurement Data) does not need to be completed for areas of projects involving oil and gas activities authorized by Chapter 78 or Chapter 78a (well pads) or pipelines and other similar utility infrastructure which will be restored to meadow in good condition or better or existing conditions.

Watershed Name: Lehigh River			
Volume Control design storm frequency _____ 2-year _____ Rainfall amount <u>3.15</u> inches	Pre-construction	Post Construction	Net Change
Impervious area (acres)	0.000	0.040	+0.040
Volume of stormwater runoff (acre- feet) without planned stormwater BMPs	0.029	0.035	+0.006
Volume of stormwater runoff (acre- feet) with planned stormwater BMPs		0.011	-0.018
Stormwater discharge rate for the design frequency storm	Pre-construction	Post Construction	Net Change
1) 2-Year/24-Hour	0.212 cfs	0.081 cfs	-0.131 cfs
2) 10-Year/24-Hour	1.006 cfs	0.283 cfs	-0.723 cfs
3) 50-year/24-Hour	2.478 cfs	1.951 cfs	-0.527 cfs
4) 100-year/24-Hour	3.380 cfs	3.338 cfs	-0.042 cfs

f. Summary Description of PCSM/SR BMPs

In the lists below, check the BMPs identified in the PCSM Plan. The primary function(s) of the BMP listed in the functions column (infiltration/recharge; detention/retention; water quality). Additional functions may be added if applicable to that BMP. List the stormwater volume and area of runoff to be treated by each BMP type when calculations are required. If any BMP in the PCSM/SR Plan is not listed below, describe it in the space provided after "Other". A summary table with infiltration testing information (Attachment E, included in the NOI Instructions) must be submitted for all Bio-infiltration BMPs included in PCSM/SR plan.

For Rate control provide the volume of stormwater treated and acres treated for the 100-year/24-hour storm event.

For volume control and water quality provide the volume of stormwater treated and acres treated for the 2-year/24-hour storm event.

Key for BMP purpose(s): VC = Volume Control; RC = Rate Control; and WQ = Water Quality

BMP	Function(s)	Purpose(s)	Volume of stormwater treated	Acres treated
Site Restoration ONLY <input type="checkbox"/> Restore Site to Meadow in Good Condition or Better, or Existing Conditions	Infiltration/Recharge Detention/WQ Treatment	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____	_____

Bio-infiltration areas <input checked="" type="checkbox"/> Infiltration Trench <input type="checkbox"/> Infiltration Bed <input type="checkbox"/> Infiltration Basin <input type="checkbox"/> Rain Garden/ Bioretention <input type="checkbox"/> Infiltration Berm	Infiltration/Recharge	<input checked="" type="checkbox"/> VC <input checked="" type="checkbox"/> RC <input checked="" type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	1,024 cf _____ _____ _____ _____	0.32 _____ _____ _____ _____
Natural Area Conservation <input type="checkbox"/> Streamside Buffer Zone <input type="checkbox"/> Wetland Buffer Zone <input type="checkbox"/> Sensitive Area Buffer Zone <input type="checkbox"/> Pre-Construction Drainage Pattern Intact	Infiltration/Recharge	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____ _____	_____ _____ _____ _____
Stormwater Retention <input type="checkbox"/> Constructed Wetlands <input type="checkbox"/> Wet Ponds <input type="checkbox"/> Retention Basin	Detention/Retention	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____	_____ _____ _____
Sediment and Pollutant Removal <input type="checkbox"/> Vegetated Filter Strips <input type="checkbox"/> Compost Filter Sock <input type="checkbox"/> Detention Basins	Water Quality Treatment	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____	_____ _____ _____
Access Road Design <input type="checkbox"/> Road Crowning <input type="checkbox"/> Ditches <input type="checkbox"/> Turnouts <input type="checkbox"/> Culverts <input type="checkbox"/> Roadside Vegetated Filter Strips	Infiltration/Recharge	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____ _____ _____	_____ _____ _____ _____ _____
Stormwater Energy Dissipaters <input type="checkbox"/> Level Spreaders <input type="checkbox"/> Riprap Aprons <input type="checkbox"/> Upslope Diversions <input type="checkbox"/> Other _____	Infiltration/Recharge	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____ _____ _____ _____	_____ _____ _____ _____

g. Critical PCSM Plan stages

Identify and list critical stages of implementation of the PCSM Plan for which a licensed professional or designee shall be present on site.

1. Engineer shall inspect the subsurface infiltration facilities prior to backfilling.
2. Engineer shall inspect final stabilization prior to removal of temporary measures.

**NOTICE OF INTENT (NOI) FOR COVERAGE UNDER THE EROSION AND SEDIMENT CONTROL
 GENERAL PERMIT (ESCGP-3) FOR EARTH DISTURBANCE ASSOCIATED WITH OIL AND GAS
 EXPLORATION, PRODUCTION, PROCESSING, OR TREATMENT OPERATIONS OR
 TRANSMISSION FACILITIES**

TABLES IN ADDENDUM OF NOI

SECTION H. POST CONSTRUCTION STORMWATER MANAGEMENT (PCSM) PLAN BMPs

Mainline Block Valve 7

e. Summary Table for Supporting Calculation and Measurement Data
 (See NOI Instructions for additional guidance with this section)
 The remainder of this section (Summary Table for Calculation and Measurement Data) does not need to be completed for areas of projects involving oil and gas activities authorized by Chapter 78 or Chapter 78a (well pads) or pipelines and other similar utility infrastructure which will be restored to meadow in good condition or better or existing conditions.

Watershed Name: Monocacy Creek			
Volume Control design storm frequency <u>2-year</u> Rainfall amount <u>3.16</u> inches	Pre-construction	Post Construction	Net Change
Impervious area (acres)	0.000	0.030	+0.030
Volume of stormwater runoff (acre- feet) without planned stormwater BMPs	0.019	0.025	+0.006
Volume of stormwater runoff (acre- feet) with planned stormwater BMPs		0.012	-0.007
Stormwater discharge rate for the design frequency storm	Pre-construction	Post Construction	Net Change
1) 2-Year/24-Hour	0.354 cfs	0.303 cfs	-0.051 cfs
2) 10-Year/24-Hour	0.638 cfs	0.526 cfs	-0.112 cfs
3) 50-year/24-Hour	1.031 cfs	0.832 cfs	-0.199 cfs
4) 100-year/24-Hour	1.243 cfs	1.071 cfs	-0.172 cfs

f. Summary Description of PCSM/SR BMPs

In the lists below, check the BMPs identified in the PCSM Plan. The primary function(s) of the BMP listed in the functions column (infiltration/recharge; detention/retention; water quality). Additional functions may be added if applicable to that BMP. List the stormwater volume and area of runoff to be treated by each BMP type when calculations are required. If any BMP in the PCSM/SR Plan is not listed below, describe it in the space provided after "Other". A summary table with infiltration testing information (Attachment E, included in the NOI Instructions) must be submitted for all Bio-infiltration BMPs included in PCSM/SR plan.

For Rate control provide the volume of stormwater treated and acres treated for the 100-year/24-hour storm event.

For volume control and water quality provide the volume of stormwater treated and acres treated for the 2-year/24-hour storm event.

Key for BMP purpose(s): VC = Volume Control; RC = Rate Control; and WQ = Water Quality

BMP	Function(s)	Purpose(s)	Volume of stormwater treated	Acres treated
Site Restoration ONLY <input type="checkbox"/> Restore Site to Meadow in Good Condition or Better, or Existing Conditions	Infiltration/Recharge Detention/WQ Treatment	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	_____	_____

Bio-infiltration areas <input checked="" type="checkbox"/> Infiltration Trench <input type="checkbox"/> Infiltration Bed <input type="checkbox"/> Infiltration Basin <input type="checkbox"/> Rain Garden/ Bioretention <input type="checkbox"/> Infiltration Berm	Infiltration/Recharge	<input checked="" type="checkbox"/> VC <input checked="" type="checkbox"/> RC <input checked="" type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	<u>576 cf</u> <hr/> <hr/> <hr/> <hr/>	<u>0.04</u> <hr/> <hr/> <hr/> <hr/>
Natural Area Conservation <input type="checkbox"/> Streamside Buffer Zone <input type="checkbox"/> Wetland Buffer Zone <input type="checkbox"/> Sensitive Area Buffer Zone <input type="checkbox"/> Pre-Construction Drainage Pattern Intact	Infiltration/Recharge	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	<hr/> <hr/> <hr/> <hr/>	<hr/> <hr/> <hr/> <hr/>
Stormwater Retention <input type="checkbox"/> Constructed Wetlands <input type="checkbox"/> Wet Ponds <input type="checkbox"/> Retention Basin	Detention/Retention	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	<hr/> <hr/> <hr/>	<hr/> <hr/> <hr/>
Sediment and Pollutant Removal <input type="checkbox"/> Vegetated Filter Strips <input type="checkbox"/> Compost Filter Sock <input type="checkbox"/> Detention Basins	Water Quality Treatment	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	<hr/> <hr/> <hr/>	<hr/> <hr/> <hr/>
Access Road Design <input type="checkbox"/> Road Crowning <input type="checkbox"/> Ditches <input type="checkbox"/> Turnouts <input type="checkbox"/> Culverts <input type="checkbox"/> Roadside Vegetated Filter Strips	Infiltration/Recharge	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	<hr/> <hr/> <hr/> <hr/> <hr/>	<hr/> <hr/> <hr/> <hr/> <hr/>
Stormwater Energy Dissipaters <input type="checkbox"/> Level Spreaders <input type="checkbox"/> Riprap Aprons <input type="checkbox"/> Upslope Diversions <input type="checkbox"/> Other _____	Infiltration/Recharge	<input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ <input type="checkbox"/> VC <input type="checkbox"/> RC <input type="checkbox"/> WQ	<hr/> <hr/> <hr/> <hr/>	<hr/> <hr/> <hr/> <hr/>

g. Critical PCSM Plan stages

Identify and list critical stages of implementation of the PCSM Plan for which a licensed professional or designee shall be present on site.

1. Engineer shall inspect the subsurface infiltration facilities prior to backfilling.
2. Engineer shall inspect final stabilization prior to removal of temporary measures.

SECTION I. ANTIDegradation ANALYSIS

This section must be completed where earth disturbance activities will be conducted in the watershed of a surface water with an existing or designated use of exceptional value or high quality pursuant to Chapter 93 (relating to water quality standards), projects where any part is located in an exceptional value wetland in accordance with 25 Pa. Code § 105.17, and projects where any part is located in the watershed of an impaired surface water where the cause of impairment is identified as siltation.

Part 1 - NONDISCHARGE ALTERNATIVES EVALUATION

The applicant must consider and describe any and all non-discharge alternatives for the entire project area which are environmentally sound and will:

- Minimize accelerated erosion and sedimentation during the earth disturbance activity
- Achieve no net change from pre-development to post-development volume, rate and concentration of pollutants in water quality

E & S Plan

PCSM/SR Plan

Check off the environmentally sound nondischarge Best Management Practices (BMPs) listed below to be used prior to, during, and after earth disturbance activities that have been incorporated into your E & S Plan based on the site analysis. For non-discharge BMPs not checked, provide an explanation of why they were not utilized. Also for BMPs checked, provide an explanation of why they were utilized. (Provide the analysis and attach additional sheets if necessary)

Please refer to Section 2-1 of this ESCGP-3 Application (Section 8.0)

Check off the environmentally sound nondischarge Best Management Practices (BMPs) listed below to be used after construction that have been incorporated into the PCSM/SR Plan based on your site analysis. For non-discharge BMPs not checked, provide an explanation of why they were not utilized. Also for BMPs checked, provide an explanation of why they were utilized. (Provide the analysis and attach additional sheets if necessary)

Please refer to Section 3-1 of this ESCGP-3 Application (Section 9) and Section 3-3, PCSM report (Section 3.1(b)(2))

Nondischarge BMPs

- Alternative Siting
 - Alternative location
 - Alternative configuration
 - Alternative location of discharge
- Limited Disturbed Area
- Limiting Extent & Duration of Disturbance (Phasing, Sequencing)
- Riparian Buffers (150 ft. min.)
- Riparian Forest Buffer (150 ft. min.)
- Other _____

Nondischarge BMPs

- Alternative Siting
 - Alternative location
 - Alternative configuration
 - Alternative location of discharge
- Low Impact Development (LID / BSD)
- Riparian Buffers (150 ft. min.)
- Riparian Forest Buffer (150 ft. min.)
- Infiltration
- Water Reuse
- Other Restoration to pre-construction conditions or meadow in good condition

Will the non-discharge alternative BMPs eliminate the net change in rate, volume and quality during construction?
 Yes No

If yes, antidegradation analysis is complete.
 If no, proceed to Part 2.

Will the non-discharge alternative BMPs eliminate the net change in rate, volume and quality after construction?
 Yes No

If yes, antidegradation analysis is complete.
 If no, proceed to Part 2.

PART 2 - ANTIDEGRADATION BEST AVAILABLE COMBINATION OF TECHNOLOGIES (ABACT)

If the net change in stormwater discharge from or after construction is not fully managed by nondischarge BMPs, the applicant must utilize ABACT BMPs to manage the difference. The Applicant must specify whether the discharge will occur during construction, post-construction or both, and identify the technologies that will be used to ensure that the discharge will be a non-degrading discharge. ABACT BMPs include but are not limited to:

E & S Plan	PCSM/SR Plan
<p><input checked="" type="checkbox"/> Treatment BMPs:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Sediment basin with skimmer <input type="checkbox"/> Sediment basin ratio of 4:1 or greater (flow length to basin width) <input type="checkbox"/> Sediment basin with 4-7 day detention <input type="checkbox"/> Flocculants <input checked="" type="checkbox"/> Compost Filter Socks <input type="checkbox"/> Compost Filter Sock Sediment Basin <input type="checkbox"/> RCE w/ Wash Rack <p><input checked="" type="checkbox"/> Land disposal:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Vegetated filters <input type="checkbox"/> Riparian buffers <150ft. <input type="checkbox"/> Riparian Forest Buffer <150ft. <input checked="" type="checkbox"/> Immediate stabilization <p><input checked="" type="checkbox"/> Pollution prevention:</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> PPC Plans <input checked="" type="checkbox"/> Street sweeping <input checked="" type="checkbox"/> Channels, collectors and diversions lined with permanent vegetation, rock, geotextile or other non-erosive materials <p><input type="checkbox"/> Stormwater reuse technologies:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Sediment basin water for dust control <input type="checkbox"/> Sediment basin water for irrigation <p><input checked="" type="checkbox"/> Other <u>100-ft long rock construction entrance(s) with street sweeping</u></p>	<p><input checked="" type="checkbox"/> Treatment BMPs:</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> Infiltration Practices <input type="checkbox"/> Wet ponds <input type="checkbox"/> Created wetland treatment systems <input checked="" type="checkbox"/> Vegetated swales <input checked="" type="checkbox"/> Manufactured devices <input type="checkbox"/> Bio-retention/infiltration <input type="checkbox"/> Green Roofs <p><input type="checkbox"/> Land disposal:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Vegetated filters <input type="checkbox"/> Riparian Buffers <150ft. <input type="checkbox"/> Riparian Forest Buffer <150ft. <input type="checkbox"/> Disconnection of roof drainage <input type="checkbox"/> Bio-retention/bio-infiltration <p><input checked="" type="checkbox"/> Pollution prevention:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Street sweeping <input type="checkbox"/> Nutrient, pesticide, herbicide or other chemical application plan alternatives <input type="checkbox"/> PPC Plans <input checked="" type="checkbox"/> Non-structural Practices <input checked="" type="checkbox"/> Restoration BMPs <p><input type="checkbox"/> Stormwater reuse technologies:</p> <ul style="list-style-type: none"> <input type="checkbox"/> Divert rainwater into impoundment <input type="checkbox"/> Underground storage <p><input type="checkbox"/> Spray/Drip Irrigation</p> <p><input type="checkbox"/> Other</p>
<p>Are the ABACT BMPs selected sufficient to minimize E&S discharges to the extent that existing or designated surface water uses are protected?</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If yes, Antidegradation analysis is complete. If no, NOI Application will be returned to the Applicant.</p>	<p>Are the ABACT BMPs selected sufficient to achieve no net change and assure that existing or designated surface water uses are protected?</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If yes, Antidegradation analysis is complete. If no, NOI Application will be returned to the Applicant.</p>

SECTION J. COMPLIANCE HISTORY REVIEW

Is/was the applicant(s) in violation of any Department regulation, order, schedule of compliance or permit or in violation of any department regulated activities within the past five years?

Yes No

If yes, provide the permit number or facility name, a brief description of the violation, the compliance schedule (including dates and steps to achieve compliance) and the current compliance status. (Attach additional information on a separate sheet, when necessary)

Permit Program or Activity: _____ **Permit Number (if applicable):** _____

Brief Description of non-compliance:

Steps taken to achieve compliance

Date(s) compliance achieved

Current Compliance Status: In-Compliance In Non-Compliance

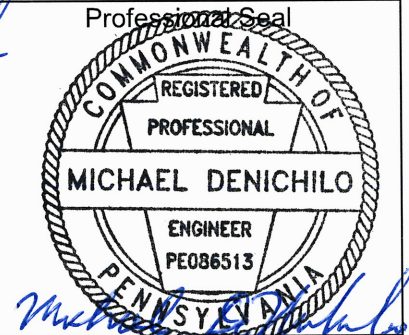
If in non-compliance, attach schedule for achieving compliance.

PERSON RESPONSIBLE FOR E&S PLANS

SECTION K. CERTIFICATION BY PERSON PREPARING E&S AND PCSM/SR PLANS

I do hereby certify to the best of my knowledge, information, and belief, that the Erosion and Sediment Control and PCSM/Site Restoration Plans are true and correct, represent actual field conditions, and are in accordance with the 25 Pa. Code Chapters 78/78a and 102 of the Department's rules and regulations. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Print Name Michael DeNichilo	Signature <i>Michael DeNichilo</i>
Company Mott MacDonald	
Address 111 Wood Avenue South, Iselin, NJ 08830-4112	
Phone (973) 379-3400	
Most Recent DEP Training Attended _____	Location _____ Date _____
e-Mail Address <u>michael.denichilo@mottmac.com</u>	



EXPEDITED REVIEW PROCESS

In addition to the certification required above, applicants using the expedited permit review process must attach an E&S and PCSM/Site Restoration Plans developed and sealed by a licensed professional engineer, surveyor or professional geologist. The plans shall contain the following certification:

I do hereby certify to the best of my knowledge, information, and belief, that the E & S Control and PCSM/SR BMPs are true and correct, represent actual field conditions and are in accordance with the 25 Pa. Code Chapters 78 / 78a and 102 of the Department's rules and regulations. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

SECTION L. APPLICANT CERTIFICATION

Applicant Certification

I certify under penalty of law, as provided by 18 Pa. C.S.A. § 4904, that this application and all related attachments were prepared by me or under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my own knowledge and on inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. The responsible official's signature also verifies that the activity is eligible to participate in the ESCGP, and that the applicant agrees to abide by the terms and conditions of the permit. BMP's, E&S Plan, PPC Plan, PCSM Plan, and other controls are being or will be, implemented to ensure that water quality standards and effluent limits are attained.

I grant permission to the agencies responsible for the permitting of this work, or their duly authorized representative to enter the project site for inspection purposes. I will abide by the conditions of the permit if issued and will not begin work prior to permit issuance.

(For individuals no indication of title is necessary, choose the box below. All others proceed to the next paragraph)

Individual; proceed to signature portion.

I hereby certify under penalty of law, as provided by 18 Pa. C.S.A. § 4904, that I am the person who is responsible for decision-making regarding environmental compliance functions for Enter Entity name, the manager of one or more manufacturing, production, or operating facilities of the applicant and am authorized to make management decisions which govern the operation of regulated facility including having explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure the applicant's long term environmental compliance with environmental laws and regulations; and I am responsible for ensuring that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements.

PERSON RESPONSIBLE FOR PCSM PLANS

SECTION K. CERTIFICATION BY PERSON PREPARING E&S AND PCSM/SR PLANS

I do hereby certify to the best of my knowledge, information, and belief, that the Erosion and Sediment Control and PCSM/Site Restoration Plans are true and correct, represent actual field conditions, and are in accordance with the 25 Pa. Code Chapters 78/78a and 102 of the Department's rules and regulations. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Print Name: W. Michael Clark	Signature: 
Company: Mott MacDonald	
Address: 111 Wood Avenue South, Iselin, NJ 08830-4112	
Phone: (973) 379-3400	
Most Recent DEP Training Attended	Location
_____	_____
Date	

e-Mail Address: michael.clark@mottmac.com	



EXPEDITED REVIEW PROCESS

In addition to the certification required above, applicants using the expedited permit review process must attach an E&S and PCSM/Site Restoration Plans developed and sealed by a licensed professional engineer, surveyor or professional geologist. The plans shall contain the following certification:

I do hereby certify to the best of my knowledge, information, and belief, that the E & S Control and PCSM/SR BMPs are true and correct, represent actual field conditions and are in accordance with the 25 Pa. Code Chapters 78 / 78a and 102 of the Department's rules and regulations. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

SECTION L. APPLICANT CERTIFICATION

Applicant Certification

I certify under penalty of law, as provided by 18 Pa. C.S.A. § 4904, that this application and all related attachments were prepared by me or under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my own knowledge and on inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. The responsible official's signature also verifies that the activity is eligible to participate in the ESCGP, and that the applicant agrees to abide by the terms and conditions of the permit. BMP's, E&S Plan, PPC Plan, PCSM Plan, and other controls are being or will be, implemented to ensure that water quality standards and effluent limits are attained.

I grant permission to the agencies responsible for the permitting of this work, or their duly authorized representative to enter the project site for inspection purposes. I will abide by the conditions of the permit if issued and will not begin work prior to permit issuance.

(For individuals no indication of title is necessary, choose the box below. All others proceed to the next paragraph)

Individual; proceed to signature portion.

I hereby certify under penalty of law, as provided by 18 Pa. C.S.A. § 4904, that I am the person who is responsible for decision-making regarding environmental compliance functions for Enter Entity name, the manager of one or more manufacturing, production, or operating facilities of the applicant and am authorized to make management decisions which govern the operation of regulated facility including having explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure the applicant's long term environmental compliance with environmental laws and regulations; and I am responsible for ensuring that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements.

(choose one of the following; not applicable for individuals):

- The responsible corporate officer president vice president secretary
- treasure of _____ Corporation/Company
Entity name
- The member or manager of PennEast Pipeline Company, LLC
Entity name
- The general partner of _____ partnership/LP/LLP
Entity name
- The principal executive officer or ranking elected official of _____ Municipality/State/Federal/other public agency
Entity name
- Power of Attorney/delegation of contractual authority (documentation supporting delegation of contracting authority must be provided) for _____
Entity name

Dante D'Alessandro, Alternate Manager

Print Name and Title of Applicant

Print Name and Title of Co-Applicant (if applicable)

Dante D'Alessandro
Signature of Applicant

Signature of Co-Applicant

12/10/2018

Date Application Signed

Date Application Signed

Notarization

Sworn to and subscribed to before me this

Commonwealth of Pennsylvania

10th day of December, 2018

County of Berks

Margaret A. D'Amico

My Commission expires Feb 10 2022

Notary Public

AFFIX SEAL

Commonwealth of Pennsylvania - Notary Seal
 Margaret A. D'Amico, Notary Public
 Berks County
 My commission expires February 10, 2022
 Commission number 1034358

Member, Pennsylvania Association of Notaries

SECTION M. ADDITIONAL CONTACT INFORMATION			
Contact's Last Name Binckley	First Name Sarah	MI	Phone 610-832-2713
			FAX 610-832-3501
Mailing Address 625 West Ridge Pike, Suite E-100	City Conshohocken	State PA	ZIP + 4 19428
e-Mail Address sarah.binckley@aecom.com			

Summary of Bio-Infiltration BMPs

Proposed Structural bio-Infiltration BMPs (site specific)	Infiltration Information					Drainage Information			BMP Information					
	Measured Infiltration Rate ¹ (in./hr)	Factor of safety (min. of 2)	Design Infiltration rate (in./hr)	De-watering time ² (hr)	Elevation of limiting zone-water table bedrock, etc. ³	Total drainage area to BMP (sq. ft)	Total impervious drainage area to BMP (sq. ft)	Infiltration BMP Surface area (sq. ft)	Volume of runoff tributary to BMP during the 2yr/24 hr design storm ⁴ (cf)	Calculated removed volume (cf)	Maximum water surface elevation in BMP from 2yr storm ⁶	Infiltration elevation bottom of bed/basin ⁶	Elevation of infiltration test ⁷	Elevation of E&S sediment basin bottom (if applies)

All information should be based on the 2-yr/24-hr storm.

Provide page numbers from the stormwater narrative identifying the location of the above information.

¹The infiltration testing information should be located on the plan view of the PCSM plan and should include infiltration test elevation and rate

²Can include active infiltration time-dewatering time should not exceed 72 hours after the 2-yr/24-hr storm

³Depth to limiting zone is recommended to be at least 2 ft below infiltration

⁴The value should be greater than or equal to the volume to be infiltrated or managed by the BMP

⁶A maximum of 2 ft hydraulic head is recommended

⁷Provide supporting field notes/documentation from soil evaluation

Any deviation from the recommendations above should be adequately justified by a qualified professional and included with the application.

Note: This chart is for summary purposes only and should be consistent with all design calculations and worksheets.