DIEFFENBAUCH & HRITZ
Engineering | Surveying | Environmental

October 24, 2016

West Pike Run Township Municipal Building
238 Pike Run Drive
Daisytown, PA 15427

RE: Notice of Intent for Coverage under ESCGP-2
West Pike Run Township, Washington County, Pennsylvania

Dear Municipal Secretary:

This municipal notice, under the requirements of Act 14, is to inform you that Rice Midstream Holdings LLC, is applying for coverage under the Erosion and Sediment Control General Permit (Ch. 102) for earth disturbance associated with oil & gas exploration, production, processing or treatment operations, or transmission facilities from the Pennsylvania Department of Environmental Protection (DEP) for the following project.

Project Name:	4-Horsemen to Lusk
Project Location:	Near the intersection of Deems Park Rd (T-948) and Elm Rd (T-354) in West Pike Run Township, Washington County.
Project Description:	Installation of (2) 24" steel gas lines and (1) 24" HDPE waterline
Application Contact:	Kyle Shirey (724) 271-7463

"Acts 67, 68, and 127, which amended the Municipalities Planning Code to support sound land use practices and planning efforts, direct state agencies to consider comprehensive plans and zoning ordinances when reviewing applications for permitting of facilities or infrastructure, and specify that state agencies may rely upon comprehensive plans and zoning ordinances under conditions as described in Sections 619.2 and 1105 of the Municipalities Planning Code."

Enclosed is a complete copy of the permit Notice of Intent (NOI) for this project. DEP invites you to review the attached application and comment on the accuracy of answers provided with regard to land use aspects of this project. Please be specific with your comments and focus on the relationship to municipal ordinances. If you wish to submit comments, you must respond within 30 days to the DEP Southwest Regional Office at 400 Waterfront Drive, Pittsburgh, PA 15222. If you do not submit comments to the DEP by the end of the comment period, DEP will assume that there are no substantive conflicts and proceed with the normal application review process.

Included in this notification:

1. Notice of Intent (NOI)
2. Project Description
3. Overall Proposed Site Plan

Sincerely,
DIEFFENBAUCH & HRITZ,

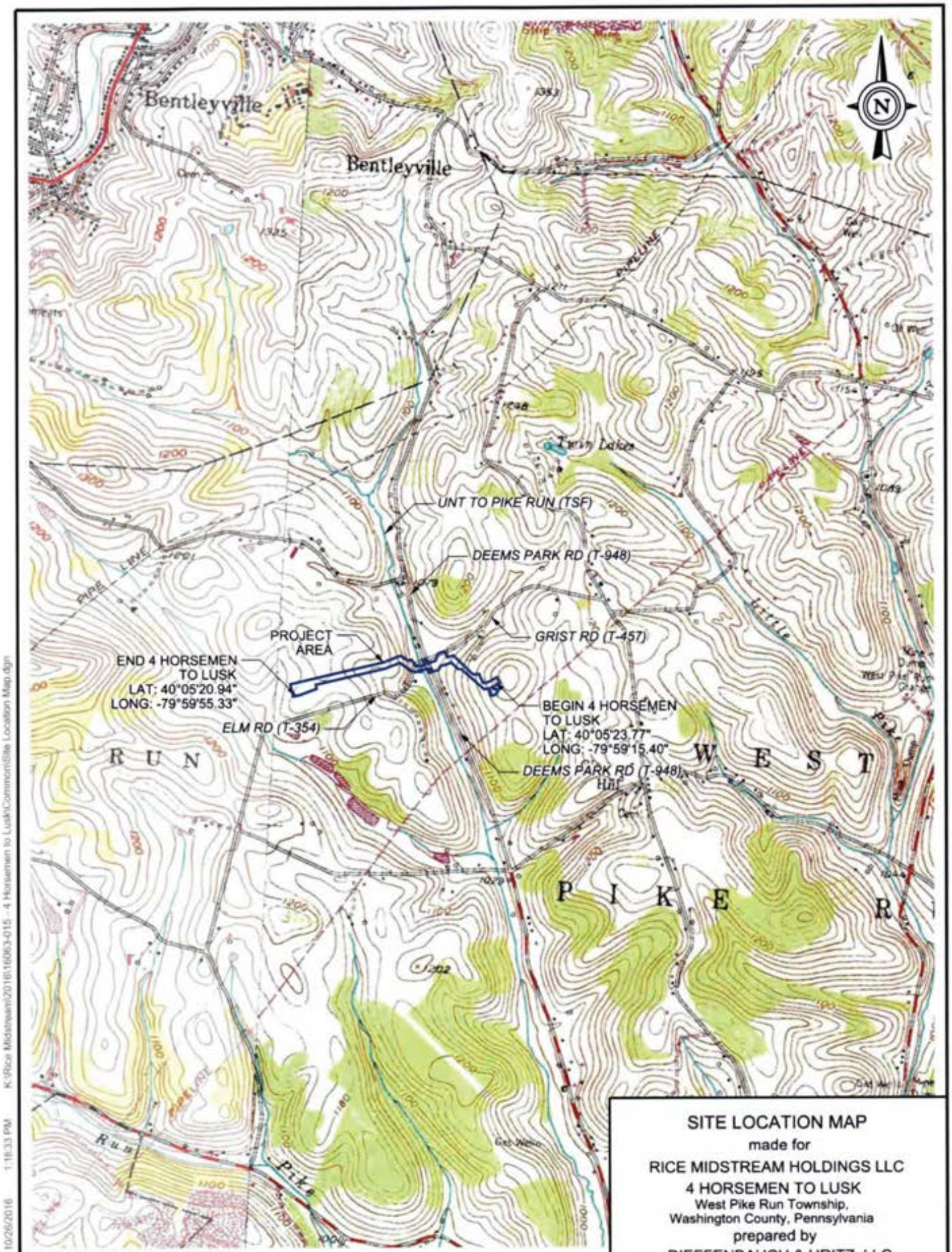
Marcus Carnegie

Marcus Carnegie, RLA
Client Leader

Enclosures: Cc: Washington County

Last paragraph includes detailed information on how to communicate with the PADEP regarding this proposed application.

Would be helpful to have the company include a map with details on associated well pads, compressor stations and infrastructure that will be included in full build out of the project.



REFERENCES: IMAGERY PROVIDED BY USGS: CALIFORNIA & ELLSWORTH QUADRANGLES; PENNSYLVANIA 7.5 MINUTE SERIES

SCALE : 0 2000 ft.

SITE LOCATION MAP

made for

RICE MIDSTREAM HOLDINGS LLC

4 HORSEMEN TO LUSK

West Pike Run Township,
Washington County, Pennsylvania

prepared by

DIEFFENBAUCH & HRITZ, LLC
1095 Chaplin Rd Suite 200, Morgantown, WV 26501
Phone: 304-985-5555 Fax: 304-985-5557

1:2000 10/26/2016 1:18:33 PM K:\Rice Midstream\2016\16063-015 - 4 Horsemen to Lusk\Common\Site Location Map.dgn

8000-PM-OOGM0005 Rev. 1/2014
Notice of Intent

pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

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

OFFICIAL USE ONLY
ID # _____
Date Received _____

NOTICE OF INTENT (NOI) FOR COVERAGE UNDER THE EROSION AND SEDIMENT CONTROL GENERAL PERMIT (ESCGP-2) 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. APPLICANT INFORMATION

APPLICATION TYPE NEW ☒ RENEWAL ☐ MAJOR MODIFICATIONS ☐ EXPEDITED ☒ PHASED ☐

Applicant's Last Name (If applicable) Shirey	First Name Kyle	MI A	Phone FAX	724-271-7463 724-746-6725
Organization Name or Registered Fictitious Name Rice Midstream Holdings LLC			Phone FAX	724-271-7463 724-746-6725
Mailing Address 2200 Rice Drive	City Canonsburg		State PA	ZIP + 4 15317
Email Address Kyle.Shirey@RiceEnergy.com				
Co-Applicant's Last Name (If applicable)	First Name	MI	Phone FAX	
Organization Name or Registered Fictitious Name			Phone FAX	
Mailing Address	City		State	ZIP + 4
Email Address				

SECTION B. SITE INFORMATION

Site Name 4 Horsemen to Lusk		
Site Location Near the intersection of Deems Park Rd (T-948) and Elm Rd (T-354)		
Site Location – City Coal Center	State PA	ZIP+4 15423
Detailed Written Directions to Site		

Get on PA-28 S from Waterfront Dr. Head south on Waterfront Dr toward Three Rivers Heritage Trail. Continue straight onto 30th St Bridge. Turn right onto River Ave. TUrn left onto 31st St Bridge. Turn left to merge onto PA-28 S. Follow I-376 W, I-79 S and I-70 E to PA 917 S/ Pittsburgh Rd in Washington County. Take Exit 32A from I-70 E. Merge onto PA-28 S. Use the rightlane to exit 1A for Interstate 279 S/ Interstate 376 W. Merge onto I-279 S. Use the 2nd from the right lane to stay on I-279 S. Use the middle lane to merge onto I-376 W/ Fort Pitt Bridge. Keep left to continue on I-376 W. Use the right 2 lanes to take exit 64A to merge onto I-79 S toward Washington. Keep left to stay on I-79 S, follow signs for Interstate 70 E/Interstate 79 S/ New Stanton/ Morgantown. Continue onto I-70 E. Take exit 32A for PA-917 toward Ginger Hill. Continue on PA-917 S. Take Cole Center Rd to Deems Park Rd in West Pike Run Township. Continue onto PA-917 S/ Pittsburgh Rd (signs for pennsylvania 917). Turn left onto Washington St. Turn left onto Piersol Ave. Continue onto Coal Center Rd. Coal Center rd turns slightly right and becomes Deems Park Rd

County	Municipality	City	Boro	Twp.
Washington	West Pike Run	☐	☐	☒

SECTION C. PROJECT INFORMATION

1. Total Project Area/Project Site (Ac):	13.54	Total Disturbed Area (Ac):	9.4

2. Project Name 4 Horsemen to Lusk

3. Project Type (Check all that apply)

☐ Oil/Gas Well ☐ Transmission Facility ☒ Gathering Facility ☐ Processing Facility ☐ Treatment Facility
☐ Centralized Fresh Water Impoundment ☐ Centralized Wastewater Impoundment ☒ Water Pipeline
☐ Ground/Surface Water Withdrawal Site ☐ Other

If Oil/Gas well, is the well conventional or unconventional? ☐ Conventional ☐ Unconventional

Project Description

Rice Midstream Holdings LLC plans to construct approximately 3,672 L.F. of gathering line. The project will begin at the 4 Horsemen Well Site (ESX16-125-0007) and extend west, crossing Deems Park Rd (T-948) and Elm Rd (T-354), and end at the Lusk Well Site (ESG11-125-0046). This project will include the installation of (2) 24" steel gas lines and (1) 24" HDPE waterline. Stormwater runoff from the site drains into four unnamed tributaries to Pike Run. Chapter 93 designation for all receiving streams is (TSF) Trout Stocked Fisheries. A PNDI project environmental review was performed for the site and resulted in no potential impacts. (Receipt # PNDI-614608)

4. Please provide the latitude and longitude coordinates for the center of the project. The coordinates should be in degrees, minutes seconds (DD MM SS.SS) and North American Datum 1983. For linear projects provide the project's termini.

Latitude 40 degrees 05 minutes 23.77 seconds Longitude -79 degrees 59 minutes 15.40 seconds

Latitude 40 degrees 05 minutes 20.94 seconds Longitude -79 degrees 59 minutes 55.33 seconds

Horizontal Collection Method: ☒ GPS ☐ Interpolated from U.S.G.S. Topographic Map ☐ DEP's eMAP

5. U.S.G.S. 7.5 min. Quad Map Name California (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. Woods, meadow, well pad

8. Other Pollutants: Will the stormwater discharge contain pollutional substances other than sediment? ☐ Yes ☒ 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?
Yes ☒ No ☐ **(If yes, a PPC Plan must be maintained on site during earth disturbance.)**

10. Does the project have the potential to discharge to siltation-impaired waters?
Yes ☐ No ☒ **(If yes, show how the project will not result in a net change in volume, rate or water quality. See section G below.)**

11. Has the project site been investigated to identify naturally occurring geologic formations or soil types that may cause pollution when disturbed?
Yes ☒ No ☐
Have naturally occurring geologic formations or soil types that may cause pollution when disturbed been identified?
Yes ☒ No ☐ **(If yes, BMPs to avoid or minimize the potential pollution must be utilized.)**

12. Has the project site been analyzed to determine potential thermal impacts to surface waters of the Commonwealth?
Yes ☒ No ☐
Have potential thermal impacts to surface water of the Commonwealth from earth disturbance activity been identified?
Yes ☒ No ☐ **(If yes, BMPs to avoid, minimize or mitigated the thermal pollution must be utilized.)**

13. Have the E&S Plan and PCSM/SR Plan been planned, designed and implemented to be consistent?
Yes ☒ No ☐

14. Have existing and/or proposed Riparian Forest Buffers been identified?
Yes ☐ N/A ☒ **(If not, they must be shown on the plans.)**

15. Is a riparian buffer waiver being requested?
Yes ☐ No ☒
If yes, the applicant requesting a waiver must submit a written request that demonstrates that reasonable alternatives will meet the requirements of 25 Pa. Code § 102.14 and to demonstrate that any existing riparian buffer will remain undisturbed to the extent practicable.

16. Have antidegradation implementation requirements for special protection waters been addressed?
Yes ☐ No ☐ **(If no, antidegradation requirements must be included in the plan.)** N/A ☒

17. Has the seasonal high groundwater level been identified at all excavation locations for pits and impoundments other than those which will contain top-hole water, fresh water and uncontaminated drill cuttings?
Yes ☐ No ☐ N/A ☒ **(If no, be advised that a 20-inch separation between the seasonal high groundwater and the bottom of all pits and impoundments containing pollutional substances is required.)**

18. Receiving Water/Watershed Name
4 UNT's to Pike Run/Monongahela River

Chapter 93, Designated Use and Existing Use Stream Classification

☐ High Quality ☐ Exceptional Value
☒ Other TSF

☐ Siltation-impaired

Secondary Receiving Water Monongahela River

Name of Municipal or Private Separate Storm Sewer Operator

19. Is an Expedited Review being requested? Yes ☒ No ☐
If yes, be advised that the Expedited Review is not available for all projects. Refer to the "Expedited Review Process" Item 8, Page 17 of the ESCGP-2 Instructions to determine if your project is eligible.

SECTION D. EROSION AND SEDIMENT CONTROL PLAN BMPS
See the attached Instructions on how to complete this section.

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 Erosion and Sediment Control BMP Manual to achieve this goal. The E&S Plan must meet the requirements of Pa. Code § 102.4(b) and submitted with the NOI.

1. E & S Plan

The E & S Plan must satisfy at least one of subparagraph A or B below.

Provide a brief summary of proposed BMPs and their performance to manage E & S for the project. If E & S BMPs and their application do not follow the guidelines referenced in the Pa. Erosion and Sediment Pollution Control Program Manual, provide documentation to demonstrate performance equivalent to, or better than, the BMPs in the Manual.

Erosion Control Blankets, Waterbars, Trench Plugs, Compost Filter Socks, Triple Compost Filter Sock Stack, Rock Construction Entrance, Pumped Water Filter Bag, Timber Mats, Vegetative Stabilization

A. ☒ E & S plan is designed using BMPs in the Pennsylvania Erosion & Sedimentation Pollution Control Manual (ESPC) (Technical Guidance #3632134-008/March 2012)

OR

B. ☐ E & S plan is designed using an alternative BMP or design standard

2. Riparian Buffer Information

A. Will you be protecting, converting or establishing a riparian buffer or a riparian forest buffer as a part of this project?

Protect ☐ Yes ☒ No Convert ☐ Yes ☒ No Establish ☐ Yes ☒ No

B. Will you be protecting, converting or establishing a voluntary riparian forest buffer as part of this project?

☐ Yes ☒ No

C. Are you proposing to conduct oil and gas activities for which site reclamation or restoration is required as part of the Chapter 78 permit authorization in a high quality or exceptional value watershed that is currently attaining its designated use and within 150 ft of a perennial or intermittent river, stream or creek or lake, pond or reservoir?

☐ Yes ☒ No If yes, provide a demonstration that any existing riparian buffer is undisturbed to the extent practicable.

D. If the regulations require a riparian buffer or riparian forest buffer and you are not providing one, list the waiver provisions in the Chapter 102 regulations, Section 102.14(d)(2)(i)-(vi), that you are requesting and provide additional documentation to demonstrate reasonable alternatives for compliance with 102.14 requirements and to demonstrate that any existing reparian buffer will remain undisturbed to the extent practicable.

Note: If the proposed activity protects, converts or establishes a riparian or riparian forest buffer a Buffer Management Plan is required in the PCSM Plan.

3. **Thermal Impacts Analysis**
Please explain how thermal impacts associated with this project were avoided, minimized, or mitigated. Several passive best management practices were employed during the design of this project to ensure that thermal impacts were avoided, minimized, or mitigated. No paved surfaves will be created on the site. Disturbed areas were minimized and will be seeded and mulched as soon as feasible in order to maximize vegetative cover.

SECTION E. SITE RESTORATION (SR) PLAN BMPS
See the attached Instructions on how to complete this section.

If this section is not applicable to your project, please indicate by checking this box: N/A ☐

For earth disturbance projects involving oil and gas activities authorized by Chapter 78 (well pads) or pipelines and other similar utility infrastructure provide the information outlined below. If your project includes both oil and gas activities authorized by Chapter 78 (well pads) or pipelines and other similar utility infrastructure and other activities requiring Post Construction Stormwater Management, provide the information outlined in this Section as well as Section F.

Site Restoration BMPs should be designed to use natural measures to eliminate pollution, infiltrate runoff, not require extensive construction/maintenance activity, promote pollutant reduction, and preserve the integrity of stream channels. The Department recommends the use of PA Stormwater BMP manual to achieve this goal. The SR Plan must meet the requirements of Pa Code § 102.8(n) and be submitted with the NOI.

1. **Site Restoration Plan Information** – The Site Restoration Plan should be designed to maximize volume reduction technologies, eliminate (where possible) or minimize point source discharges to surface waters, preserve the integrity of stream channels, and protect the physical, biological and chemical qualities of the receiving surface water.

Design standards applied to develop the Site Restoration Plan. Check those that apply.

☒ Act 167 Plan – The attached 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	
Washington County Act 167 SWM Plan Phase II	June 17, 2010	Verification Report Included	☒

***NOTE**: A consistency letter is not required if a verification report is provided. Please see NOI Instructions.* The Site Restoration Plan must satisfy either sub paragraph A, B, **or** C below. Check those that apply.

A. ☒ Act 167 Plan approvals on or after January 2005 - The attached PCSM 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. Letter A must be checked if a current, DEP approved Act 167 plan exists.

B. ☒ The PCSM meets the standard design criteria from the PA Stormwater BMP Manual. For projects involving oil and gas activities authorized by a permit issued under Chapter 78 (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.

C. ☐ Alternative Design Standard – The attached PCSM Plan was developed using approaches other than 102.8(g)(2). Demonstrate/explain in the space provided below how this standard will be either more protective than what is required in 102.8(g)(2) or will maintain and protect existing water quality and existing and designated uses.

2. Riparian Buffer Information

A. Will you be protecting, converting or establishing a riparian buffer or a riparian forest buffer as part of this activity?
Protect ☐ Yes ☒ No Convert ☐ Yes ☒ No Establish ☐ Yes ☒ No

B. Will you be protecting, converting or establishing a voluntary riparian forest buffer as part of this activity?
☐ Yes ☒ No

C. Are you proposing to conduct oil and gas activities for which site reclamation or restoration is required under a permit issued under the auhtority of the 2012 Oil and Gas Act and Chapter 78 in a high quality or exceptional value watershed that is currently attaining its designated use and within 150 ft of a perennial or intermittent river, stream or creek or lake, pond or reservoir?

☐ Yes ☒ No If yes, provide a demonstration that any existing riparian buffer is undisturbed to the extent practicable.

D. If the regulations require a riparian buffer or riparian forest buffer and you are **not** providing one, list below the waiver provisions in the Chapter 102 regulations, Section 102.14(d)(i)-(vi), that you are requesting and provide additional documentation to demonstrate reasonable alternatives for compliance with 102.14 requirements and to demonstrate that any existing reparian buffer will remain undisturbed to the extent practicable.

Note: If the proposed activity protects, converts or establishes a riparian or riparian forest buffer a Buffer Management Plan is required in the PCSM Plan.

3. SUMMARY TABLE FOR SUPPORTING CALCULATION AND MEASUREMENT DATA
See Attachment D in the Instructions on how to Complete This Section

This section does not need to be completed for areas of projects involving oil and gas activities authorized by Chapter 78 (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:

Design storm frequency _____ Rainfall amount _____ inches	Pre-construction	Post Construction	Net Change
Impervious area (acres)			
Volume of stormwater runoff (acre-feet) without planned stormwater BMPs			
Volume of stormwater runoff (acre-feet) with planned stormwater BMPs	[redacted]		

Stormwater discharge rate for the design frequency storm	Pre-construction	Post Construction	Net Change
1) 2-Year/24-Hour			
2) 10-Year/24-Hour			
3) 50-year/24-Hour			
4) 100-year/24-Hour			

4. SUMMARY DESCRIPTION OF SITE RESTORATION BMPs

In the lists below, check the BMPs identified in the Post Construction Stormwater Management 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 Site Restoration Plan is not listed below, describe it in the space provided after "Other".

BMP	Function(s)	Volume of stormwater treated	Acres treated
Site Restoration ☒ Restore Site to Meadow in Good Condition or Better, or Existing Conditions	Infiltration/Recharge Detention/WQ Treatment	____	____
Bio-infiltration areas ☐ Infiltration Trench ☐ Infiltration Bed ☐ Infiltrated Basin	Infiltration/Recharge	____ ____ ____	____ ____ ____
Natural Area Conservation ☐ Streamside Buffer Zone ☐ Wetland Buffer Zone ☐ Sensitive Area Buffer Zone ☐ Pre-Construction Drainage Pattern Intact	Infiltration/Recharge	____ ____ ____ ____	____ ____ ____ ____
Stormwater Retention ☐ Constructed Wetlands ☐ Wet Ponds ☐ Retention Basin	Detention/Retention	____ ____ ____	____ ____ ____
Sediment and Pollutant Removal ☐ Vegetated Filter Strips ☐ Detention Basins	Water Quality Treatment	____ ____	____ ____
Access Road Design ☐ Road Crowning ☐ Ditches ☐ Turnouts ☐ Culverts ☐ Roadside Vegetated Filter Strips	Infiltration/Recharge	____ ____ ____ ____ ____	____ ____ ____ ____ ____

Stormwater Energy Dissipaters ☐ Level Spreaders ☐ Riprap Aprons ☐ Upslope Diversions ☐ _____	Infiltration/Recharge	_____ _____ _____ _____	_____ _____ _____ _____

5. 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.

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

6. Thermal Impact Analysis.

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

Several passive best management practices were employed during the design of this project to ensure that thermal impacts were avoided, minimized, or mitigated. No paved surfaces will be created on the site. Disturbed areas were minimized and will be seeded and mulched as soon as feasible in order to maximize vegetative cover.

SECTION F. POST CONSTRUCTION STORMWATER MANAGEMENT (PCSM) PLAN BMPS

See the attached Instructions on how to complete this section.

If this section is not applicable to your project, please indicate by checking this box: N/A ☒

For earth disturbance projects requiring post construction stormwater management, provide the information outlined below. If your project includes both oil and gas activities authorized under a well permit issued under the 2012 Oil and Gas Act and Chapter 78 (well pads) or pipelines and other similar utility infrastructure and other activities requiring Post Construction Stormwater Management, provide the information outlined in this Section as well as Section E.

Post Construction Stormwater Management BMPs should be designed to use natural measures to eliminate pollution, infiltrate runoff, not require extensive construction/maintenance activity, promote pollutant reduction, and preserve the integrity of stream channels. The Department recommends the use of PA Stormwater BMP manual to achieve this goal. If PCSM BMPS and their application do not follow the guidelines referenced in the PA Stormwater BMP Manual, provide documentation to demonstrate performance equivalent to, or better than, the BMPs in the Manual.

1. **Post Construction Stormwater Management Plan Information** – The Post Construction Stormwater Management Plan must meet the requirements in 25 Pa. Code §102.8 and should be designed to maximize volume reduction technologies, eliminate (where possible) or minimize point source discharges to surface waters, preserve the integrity of stream channels, and protect the physical, biological and chemical qualities of the receiving surface water.

   Design standards applied to develop the Post Construction Stormwater Management Plan. Check those that apply.

   ☐ Act 167 Plan – The attached PCSM 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 ☐
N/A	N/A	Verification Report Included ☐

   NOTE: A consistency letter is not required if a verification report is provided. Please see NOI Instructions.

   The PCSM Plan must satisfy either subparagraph A, B, **or** C below. Check those that apply. If a current, DEP approved Act 167 Plan exists, letter A must be checked.

   A. ☐ Act 167 Plan approvals on or after January 2005 - The attached PCSM 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.

   B. ☒ The PCSM meets the standard design criteria from 102.8(g)(2) and (3) the PA Stormwater BMP Manual. [Note: PCSM plans have to meet both the volume and rate requirements in the regulations, which are provided in these 2 sections].

   C. ☐ Alternative Design Standard – The attached PCSM Plan was developed using alternative approaches as provided in 102.8(g)(2)(iv) and 102.(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.

2. **Riparian Buffer Information**

   A. Will you be protecting, converting or establishing a riparian buffer or a riparian forest buffer as part of this activity?
   Protect ☐ Yes ☒ No Convert ☐ Yes ☒ No Establish ☐ Yes ☒ No

   B. Will you be protecting, converting or establishing a voluntary riparian forest buffer as part of this activity?
   ☐ Yes ☒ No

   C. Are you proposing to conduct oil and gas activities for which site reclamation or restoration is is required under a well permit issued under the authority of the 2012 Oil and Gas Act and Chapter 78 and in a high quality or exceptional value watershed that is currently attaining its designated use and within 150 ft of a perennial or intermittent river, stream or creek or lake, pond or reservoir?

   ☒ Yes ☐ No If yes, provide a demonstration that any existing riparian buffer is undisturbed to the extent practicable.

   D. If the regulations require a riparian buffer or riparian forest buffer and you are not providing one, list below the waiver provisions in the Chapter 102 regulations, Section 102.14(d)(i)-(vi), that you are requesting and provide additional documentation to demonstrate reasonable alternatives for compliance with 102.14 requirements and to demonstrate that any existing reparian buffer will remain undisturbed to the extent practicable.

Note: If the proposed activity protects, converts or establishes a riparian or riparian forest buffer a Buffer Management Plan is required in the PCSM Plan.

3. SUMMARY TABLE FOR SUPPORTING CALCULATION AND MEASUREMENT DATA
See Attachment D in the Instructions on how to Complete This Section

Watershed Name:

Design storm frequency _____ Rainfall amount _____ inches	Pre-construction	Post Construction	Net Change
Impervious area (acres)			
Volume of stormwater runoff (acre-feet) without planned stormwater BMPs			
Volume of stormwater runoff (acre-feet) with planned stormwater BMPs			
Stormwater discharge rate for the design frequency storm			
1) 2-Year/24-Hour			
2) 10-Year/24-Hour			
3) 50-year/24-Hour			
4) 100-year/24-Hour			

4. SUMMARY DESCRIPTION OF POST CONSTRUCTION STORMWATER BMPs

In the lists below, check the BMPs identified in the Post Construction Stormwater Management 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 Site Restoration Plan is not listed below, describe it in the space provided after "Other".

BMP	Function(s)	Volume of stormwater treated	Acres treated
Bio-infiltration areas ☐ Infiltration Trench ☐ Infiltration Bed ☐ Infiltrated Basin	Infiltration/Recharge	 _____ _____ _____	 _____ _____ _____
Natural Area Conservation ☐ Streamside Buffer Zone ☐ Wetland Buffer Zone ☐ Sensitive Area Buffer Zone ☐ Pre-Construction Drainage Pattern Intact	Infiltration/Recharge	 _____ _____ _____ _____	 _____ _____ _____ _____
Stormwater Retention ☐ Constructed Wetlands ☐ Wet Ponds ☐ Retention Basin	Detention/Retention	 _____ _____ _____	 _____ _____ _____
Sediment and Pollutant Removal ☐ Vegetated Filter Strips ☐ Compost Filter Sock ☐ Detention Basins	Water Quality Treatment	 _____ _____ _____	 _____ _____ _____

Access Road Design ☐ Road Crowning ☐ Ditches ☐ Turnouts ☐ Culverts ☐ Roadside Vegetated Filter Strips	Infiltration/Recharge	____ ____ ____ ____ ____	____ ____ ____ ____ ____
Stormwater Energy Dissipaters ☐ Level Spreaders ☐ Riprap Aprons ☐ Upslope Diversions ☐ _____	Infiltration/Recharge	____ ____ ____ ____	____ ____ ____ ____

5. 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.

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

6. Thermal Impact Analysis.

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

Several passive best management practices were employed during the design of this project to ensure that thermal impacts were avoided, minimized, or mitigated. No paved surfaces will be created on the site. Disturbed areas were minimized and will be seeded and mulched as soon as feasible in order to maximize vegetative cover.

7. 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.

SECTION G. ANTIDEGRADATION ANALYSIS

This section must be completed where earth disturbance activities will be conducted in special protection or siltation-impaired watersheds.

Part 1 NONDISCHARGE ALTERNATIVES EVALUATION

The applicant must consider and describe any and all nondischarge 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	*Official Use Only*	PCSM/Site Restoration Plan	*Official Use Only*
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 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 your analysis and attach additional sheets if necessary)		Check off the environmentally sound nondischarge Best Management Practices (BMPs) listed below to be used after construction that have been incorporated into your 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 your analysis and attach additional sheets if necessary)	
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 _____	

Will the non-discharge alternative BMPs eliminate the net change in rate, volume and quality during and 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	*Official Use Only*	PCSM/Site Restoration Plan	*Official Use Only*
☐ **Treatment BMPs:** ☐ Sediment basin with skimmer ☐ Sediment basin ratio of 4:1 or greater (flow length to basin width) ☐ Sediment basin with 4-7 day detention ☐ Flocculants ☐ Compost Filter Socks ☐ Compost Filter Sock Sediment Basin ☐ RCE w/ Wash Rack ☐ **Land disposal:** ☐ Vegetated filters ☐ Riparian buffers <150ft. ☐ Riparian Forest Buffer <150ft. ☐ Immediate stabilization ☐ **Pollution prevention:** ☐ PPC Plans ☐ Street sweeping ☐ Channels, collectors and diversions lined with permanent vegetation, rock, geotextile or other non-erosive materials ☐ **Stormwater reuse technologies:** ☐ Sediment basin water for dust control ☐ Sediment basin water for irrigation ☐ **Other** _____		☐ **Treatment BMPs:** ☐ Infiltration Practices ☐ Wet ponds ☐ Created wetland treatment systems ☐ Vegetated swales ☐ Manufactured devices ☐ Bio-retention/infiltration ☐ Green Roofs ☐ **Land disposal:** ☐ Vegetated filters ☐ Riparian Buffers <150ft. ☐ Riparian Forest Buffer <150ft. ☐ Disconnection of roof drainage ☐ Bio-retention/bio-infiltration ☐ **Pollution prevention:** ☐ Street sweeping ☐ Nutrient, pesticide, herbicide or other chemical application plan alternatives ☐ PPC Plans ☐ Non-structural Practices ☐ Restoration BMPs ☐ **Stormwater reuse technologies:** ☐ Divert rainwater into impoundment ☐ Underground storage ☐ Spray/Drip Irrigation ☐ **Other** _____	

SECTION H. COMPLIANCE REVIEW

Is the applicant in violation of any existing permit, regulation, order, or schedule of compliance issued by the Department within the last 5 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 sheets, when necessary)

See Attachment D

SECTION I. CERTIFICATION BY PERSON PREPARING APPLICATION

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 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 Herbert L. Parsons III, P.E., P.L.S.	Signature	Professional Seal
Company Dieffenbauch& Hritz, LLC		
Address 1095 Chaplin Road, Suite 200, Morgantown, WV 26501		
Phone 304-985-5555		
Most Recent DEP Training Attended Location Harrisburg, PA Date Oct. 2014		
e-Mail Address hparsons@dandhengineers.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 SR/PCSM BMPs are true and correct, represent actual field conditions and are in accordance with the 25 Pa. Code Chapters 78 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 J. APPLICANT CERTIFICATION

Applicant Certification. I certify under penalty of law that this document and all attachments were prepared by me or under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my 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 permit, and that the applicant agrees to abide by the terms and conditions of the permit. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Kyle A. Shirey - Midstream Permitting Coordinator
Print Name and Title of Applicant

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

Signature of Applicant

Signature of Co-Applicant

Date Application Signed

Date Application Signed

Notarization

Sworn to and subscribed to before me this

_____ day of _____, 20_____

Commonwealth of Pennsylvania

County of _____

My Commission expires _____

Notary Public

AFFIX SEAL

SECTION K. CONTACT FOR ADDITIONAL INFORMATION				
Contact's Last Name	First Name	MI	Phone	304-985-5555
Carnegie	Marcus	I	FAX	304-985-5557
Mailing Address	City		State	ZIP + 4
1095 Chaplin Road, Suite 200	Morgantown		WV	26501
e-Mail Address mcarnegie@dandhengineers.com				