



**CHESTER COUNTY CONSERVATION DISTRICT**  
**688 Unionville Road, Suite 200, Kennett Square, PA 19348**  
**Phone: 610-925-4920 ~ Fax: 610-925-4925**  
**[www.chesco.org/conservation](http://www.chesco.org/conservation)**

August 20, 2015

Eastern Shore Natural Gas Company  
Attn: Richard Welsh  
1110 Forrest Ave, Suite 201  
Dover, DE 19904-2788

Morris & Ritchie Associates, Inc.  
Attn: Charlie Barnett  
18 Boulden Circle, Suite 36  
Wilmington, DE 19720-3494

**RE: Incompleteness Review Letter- Erosion and Sediment Control General Permit (ESCGP)**

**White Oak Mainline Expansion Project- Daleville Loop**

**ESCGP File Number: ESG 00 029 15 0001**

**Highland & Londonderry Townships, Chester County, PA**

Stream Name(s): Doe Run & Big Elk Creek

Designation(s): Not Provided

Plan Date: 6/12/15

Narrative Date: June 2015

To Whom it May Concern:

The Chester County Conservation District has reviewed the above referenced application and has determined that it is incomplete. The Following list specifies the items that must be included in the resubmittal of your application and/or the submission of additional information. The Pennsylvania Erosion and Sediment Pollution Control Program Manual and the Pennsylvania Stormwater Best Management Practices Manual include information that will aid you in the responding to some of the items listed below. The items are based on applicable laws and regulations, and the guidance sets forth the DEP's preferred means of satisfying the applicable regulatory requirements.

**Items for Resubmittal or Submission of Additional Information**

**ESCGP-2 NOI Comments**

- 1.) NOI Section B Site Information- Site location box needs to be updated with more specific information, i.e. Beginning and ends of the pipeline locations. 102.5(m)(2)

- 2.) NOI Section C Box 18 should be completed as much as possible, this project in not crossing may different watersheds and the information in its entirety can be provided on the NOI. 102.5(m)(2)
- 3.) NOI Section D Box 2 indicates the site is protecting and converting a voluntary riparian buffer, please provide the buffer management plan as part of the PCSM Plan. Please refer to the PA DEP's website for the Riparian Forest Buffer Management Plan information. 102.5(m)(2) <http://www.eibrary.dep.state.pa.us/dsweb/Get/Document-82308/394-5600-001.pdf>
- 4.) NOI Section E Box 1 indicates the project is compliant with local Act 167 ordinances, please provide a consistency letter from each municipality indicating this or a PE signed and sealed verification report. 102.5(m)(2) Please note that Act 167 requires all land cover to be converted to Meadow and then the site will have to address the pre to post change in land cover i.e. Meadow to agriculture, or meadow to lawn, etc, and a stormwater volume control and peak rate components will be required that may require structural PCSM BMPs along the ROW. The designing engineers may want to reevaluate the statement that the site complies with Act 167.
- 5.) NOI Section E Box 2, please provide the buffer management plan as part of the PCSM Plan. 102.5(m)(2)
- 6.) NOI Section E Box 4, all BMPs checked should be illustrated on the Site Restoration Plans. 102.5(m)(2)
- 7.) NOI Section G should be completed for the Specially Protected Watershed portion of this project. 102.5(m)(2)

### **ESCGP-2 NOI Checklist Comments**

- 1.) Box 1- Please provide 2 more copies of the ESCGP-2.
- 2.) Box 2- The provided plan sets are not titled E&S Control Plans. All E&S Control plan pages should be titled E&S Plans.
- 3.) Box 2.e- Please provide the stream designations.
- 4.) Box 2.f- Pages 18-20 of the narrative don't address this BMP Description Narrative, please revise accordingly.
- 5.) Box 2.g- Please provide the drawing plan page numbers.
- 6.) Box 2.k- Please provide drawing plan page numbers where the recycling and disposal information can be found.
- 7.) Box 2.o- The ESCGP-2 NOI indicates that buffers were identified but the checklist marks N/A. Please clarify and revise both the NOI and checklist for consistency.

- 8.) Box 2.p- Antideg requirements are needed on this site in its Specially Protected watersheds, please revise checklist accordingly.
- 9.) Box 5- The provided PNDI receipt indicates an older PNDI that was run prior to May 4, 2015. A new species was added to the PNDI database and the PNDI needs to be re-run/ updated after the may 4, 2015 date.
- 10.) Box 6- The PCSM/Site Restoration (SR) plan pages could not be found, please provide 3 sets of the PCSM/SR plans.

### **Other**

- 1.) Please provide copies of 105 Stream and Wetland Crossing Permit applications.

You may request a time extension, in writing before the 60 calendar days expire to respond to the deficiencies beyond the sixty (60) calendar days. Requests for time extension will be reviewed by the Chester County Conservation District and considered. You be notified in writing of the decision either to grant or deny, including the specific due date to respond if the extension is granted. Time extensions shall be in accordance with 25 Pa. Code §102.6(c).

As stipulated in 25 Pa. Code §102.6(c) of DEP's Chapter 102 rules and regulations (regarding complete applications) information requested by this office must be received within sixty (60) calendar days from the date of this letter or the Chester County Conservation District will consider the application to be withdrawn by the applicant and no further action will be taken on the application. Fees are not refunded when an application is considered to be withdrawn.

**Questions regarding this matter can be directed to:**

**Joe Sofranko**

**Resource Conservationist**

**Chester County Conservation District**

**(610) 925-4920 ext. 107**

Sincerely,



Christian E. Strohmaier Electronic signature  
Director

cc: Highland Twp (e-mail)  
Londonderry Twp (e-mail)  
MRA (e-mail)  
PA DEP (e-mail)  
Project File  
Permit File

RECEIVED

AUG 11 2015

CCCD copy

8000-PM-OOGM0005 Rev. 1/2014

Notice of Intent



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

OFFICIAL USE ONLY  
ID # *ESG 00 029 15 00 01*  
Date Received *8-11-2015*

**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) Welsh		First Name Richard	MI	Phone FAX
Organization Name or Registered Fictitious Name Eastern Shore Natural Gas Company			Phone (302) 734 - 6710	FAX (302) 734 - 6745
Mailing Address 1110 Forrest Avenue, Suite 201		City Dover	State DE	ZIP + 4 19904-2788
Email Address <i>rwelsh@chpk.com</i>				
Co-Applicant's Last Name (If applicable) Barnett		First Name Charlie	MI	Phone FAX
Organization Name or Registered Fictitious Name Morris & Ritchie Associates, Inc.			Phone (302) 326 - 2200	FAX (302) 326 - 2399
Mailing Address 18 Boulden Circle, Suite 36		City Wilmington	State DE	ZIP + 4 19720-3494
Email Address <i>cbarnett@mragta.com</i>				

**SECTION B. SITE INFORMATION**

Site Name White Oak Mainline Expansion Project - Daleville Loop					
Site Location  Chester County					
Site Location - City Cochranville			State PA	ZIP+4	
Detailed Written Directions to Site Daleville (Cochranville, PA) - Take S.R. 41 towards Cochranville. Follow S.R. 41 to intersection of Limestone Rd (S.R. 10). Take Limestone Rd (S.R. 10) North to the project site, located in an agricultural field on right-hand side prior to a residence addressed 3266 Limestone Rd & pasture land on right-hand side of a residence addressed 3268 Limestone Rd.					
County Chester	Municipality Highland and Londonderry		City <input type="checkbox"/>	Boro <input type="checkbox"/>	Twp. <input checked="" type="checkbox"/>

<b>SECTION C. PROJECT INFORMATION</b>					
1. Total Project Area/Project Site (Ac):	44	Total Disturbed Area (Ac):	44		
2. Project Name <b>White Oak Mainline Expansion Project - Daleville Loop</b>					
3. Project Type (Check all that apply)					
<input type="checkbox"/> Oil/Gas Well <input checked="" type="checkbox"/> Transmission Facility <input type="checkbox"/> Gathering Facility <input type="checkbox"/> Processing Facility <input type="checkbox"/> Treatment Facility <input type="checkbox"/> Centralized Fresh Water Impoundment <input type="checkbox"/> Centralized Wastewater Impoundment <input type="checkbox"/> Water Pipeline <input type="checkbox"/> Ground/Surface Water Withdrawal Site <input type="checkbox"/> Other If Oil/Gas well, is the well conventional or unconventional? <input type="checkbox"/> Conventional <input type="checkbox"/> Unconventional					
<u>Project Description</u>					
The project involves the installation of a 16-inch diameter buried natural gas pipeline totaling approximately 3.3 miles. The project will commence along Limestone Road near Cochranville, Pennsylvania and proceed southeast to the existing Daleville Compressor Station along Street Road. Please see attached Erosion and Sedimentation Pollution Control Narrative for additional information.					
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 <u>39</u> degrees <u>51</u> minutes <u>35</u> seconds                      Longitude <u>75</u> degrees <u>53</u> minutes <u>31</u> seconds Latitude _____ degrees _____ minutes _____ seconds    Longitude _____ degrees _____ minutes _____ seconds Horizontal Collection Method: <input checked="" type="checkbox"/> GPS <input type="checkbox"/> Interpolated from U.S.G.S. Topographic Map <input type="checkbox"/> DEP's eMAP					
5. U.S.G.S. 7.5 min. Quad Map Name See Figure 1 (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? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If Yes, Include Master Site Plan Estimated Timetable for Phased Projects. <input type="checkbox"/> Additional sheet(s) attached.					
Phase No. or Name	Description	Total Area	Disturbed Area	Start Date	End Date
	Construction	44 Ac.	44 Ac.	Aug 2015	Jan 2016
7. List existing and previous land use for a minimum of the previous 5 years. Varies - See Attached Narrative					
8. Other Pollutants: Will the stormwater discharge contain pollutional 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? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> (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 <input type="checkbox"/> No <input checked="" type="checkbox"/> (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 <input type="checkbox"/> No <input checked="" type="checkbox"/> Have naturally occurring geologic formations or soil types that may cause pollution when disturbed been identified? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> <b>(If yes, BMPs to avoid or minimize the potential pollution must be utilized.)</b>	
12. Has the project site been analyzed to determine potential thermal impacts to surface waters of the Commonwealth? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Have potential thermal impacts to surface water of the Commonwealth from earth disturbance activity been identified? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> <b>(If yes, BMPs to avoid, minimize or mitigated the thermal pollution must be utilized.)</b>	
13. Have the E&S Plan and PCSM/SR Plan been planned, designed and implemented to be consistent? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
14. Have existing and/or proposed Riparian Forest Buffers been identified? Yes <input checked="" type="checkbox"/> N/A <input type="checkbox"/> <b>(If not, they must be shown on the plans.)</b>	
15. Is a riparian buffer waiver being requested? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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 <input checked="" type="checkbox"/> No <input type="checkbox"/> <b>(If no, antidegradation requirements must be included in the plan.)</b> N/A <input type="checkbox"/>	
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 <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> <b>(If no, be advised that a 20-inch separation between the seasonal high groundwater and the bottom of all pits and impoundments containing polluttional substances is required.)</b>	
18. Receiving Water/Watershed Name * See Attached Narrative Chapter 93, Designated Use and Existing Use Stream Classification <input type="checkbox"/> High Quality <input type="checkbox"/> Exceptional Value <input type="checkbox"/> Other _____  <input type="checkbox"/> Siltation-impaired  Secondary Receiving Water	Name of Municipal or Private Separate Storm Sewer Operator   
19. Is an Expedited Review being requested?                      Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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.	
<b>SECTION D. EROSION AND SEDIMENT CONTROL PLAN BMPs</b> <b>See the attached instructions on how to complete this section.</b>	
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.

A selection of various BMPs have been proposed to minimize accelerated soil erosion and sedimentation due to earth disturbance activities and protect, maintain and restore water quality of surface waters. Each of the proposed measures have been obtained from the DEP Erosion and Sediment Pollution Control Program Manual, dated March 2012 and are acceptable E&S Measures for the state of Pennsylvania.

- 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 riparian 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.

Construction efforts to minimize thermal impacts associated with stream and wetland riparian areas will consist of the reduction of work areas in the immediate vicinity of the proposed crossings. Tree removal will be minimized to only those necessary for the excavation of the pipeline and installation of temporary access roads for equipment crossings, which would permit the existing canopy to remain intact. Upon completion of the pipeline installation, site restoration measures will be performed, including but not limited to regrading the disturbed area to the original contours, utilization of the existing soil material to re-establish vegetation and utilization of temporary seeding in areas where Erosion and Sedimentation (E&S) are of an eminent concern. Upon establishment of permanent vegetation, final cleanup would be performed for the removal of temporary E&S measures and the site will permit vegetation to regenerate naturally. The only area that will be continuously maintained and kept clear of any over growth will be limited to the immediate area of the gas pipeline and potentially the width of permanent easement.

**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	<input type="checkbox"/>
_____	_____	Verification Report Included	<input type="checkbox"/>

**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 authority 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 riparian 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			

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
<b>Site Restoration</b>  <input checked="" type="checkbox"/> Restore Site to Meadow in Good Condition or Better, or Existing Conditions	Infiltration/Recharge Detention/WQ Treatment	_____	<u>44</u>
<b>Bio-infiltration areas</b> <input type="checkbox"/> Infiltration Trench <input type="checkbox"/> Infiltration Bed <input type="checkbox"/> Infiltrated Basin	Infiltration/Recharge	_____ _____ _____	_____ _____ _____
<b>Natural Area Conservation</b> <input checked="" type="checkbox"/> Streamside Buffer Zone <input checked="" type="checkbox"/> Wetland Buffer Zone <input type="checkbox"/> Sensitive Area Buffer Zone <input checked="" type="checkbox"/> Pre-Construction Drainage Pattern Intact	Infiltration/Recharge	_____ _____ _____ _____	_____ _____ _____ <u>44</u>
<b>Stormwater Retention</b> <input type="checkbox"/> Constructed Wetlands <input type="checkbox"/> Wet Ponds <input type="checkbox"/> Retention Basin	Detention/Retention	_____ _____ _____	_____ _____ _____
<b>Sediment and Pollutant Removal</b> <input type="checkbox"/> Vegetated Filter Strips <input type="checkbox"/> Detention Basins	Water Quality Treatment	_____ _____	_____ _____
<b>Access Road Design</b> <input type="checkbox"/> Road Crowning <input type="checkbox"/> Ditches <input type="checkbox"/> Turnouts <input type="checkbox"/> Culverts <input checked="" type="checkbox"/> Roadside Vegetated Filter Strips	Infiltration/Recharge	_____ _____ _____ _____ _____	_____ _____ _____ _____ _____

<b>Stormwater Energy Dissipaters</b> <input type="checkbox"/> Level Spreaders <input type="checkbox"/> Riprap Aprons <input checked="" type="checkbox"/> Upslope Diversions <input type="checkbox"/>	Infiltration/Recharge	_____ _____ _____ _____	_____ _____ _____ _____
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**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.

Construction efforts to minimize thermal impacts associated with stream and wetland riparian areas will consist of the reduction of work areas in the immediate vicinity of the proposed crossings. Tree removal will be minimized to only those necessary for the excavation of the pipeline and installation of temporary access roads for equipment crossings, which would permit the existing canopy to remain intact. Upon completion of the pipeline installation, site restoration measures will be performed, including but not limited to regrading the disturbed area to the original contours, utilization of the existing soil material to re-establish vegetation and utilization of temporary seeding in areas where Erosion and Sedimentation (E&S) are of an eminent concern. Upon establishment of permanent vegetation, final cleanup would be performed for the removal of temporary E&S measures and the site will permit vegetation to regenerate naturally. The only area that will be continuously maintained and kept clear of any over growth will be limited to the immediate area of the gas pipeline and potentially the width of permanent easement.

**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	<input type="checkbox"/>
_____	_____	Verification Report Included	<input type="checkbox"/>

**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 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 riparian 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

<b>Watershed Name:</b>			
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
<b>Bio-infiltration areas</b> <input type="checkbox"/> Infiltration Trench <input type="checkbox"/> Infiltration Bed <input type="checkbox"/> Infiltrated Basin	Infiltration/Recharge	_____ _____ _____	_____ _____ _____
<b>Natural Area Conservation</b> <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	_____ _____ _____ _____	_____ _____ _____ _____
<b>Stormwater Retention</b> <input type="checkbox"/> Constructed Wetlands <input type="checkbox"/> Wet Ponds <input type="checkbox"/> Retention Basin	Detention/Retention	_____ _____ _____	_____ _____ _____
<b>Sediment and Pollutant Removal</b> <input type="checkbox"/> Vegetated Filter Strips <input type="checkbox"/> Compost Filter Sock <input type="checkbox"/> Detention Basins	Water Quality Treatment	_____ _____ _____	_____ _____ _____

<b>Access Road Design</b> <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	_____ _____ _____ _____ _____	_____ _____ _____ _____ _____
<b>Stormwater Energy Dissipaters</b> <input type="checkbox"/> Level Spreaders <input type="checkbox"/> Riprap Aprons <input type="checkbox"/> Upslope Diversions <input type="checkbox"/> _____	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.

**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

<b>E &amp; S Plan</b>	<b>Official Use Only</b>	<b>PCSM/Site Restoration Plan</b>	<b>Official Use Only</b>
<p>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 &amp; 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)</p>		<p>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)</p>	

<p><b>Nondischarge BMPs</b></p> <p><input type="checkbox"/> Alternative Siting</p> <p style="padding-left: 20px;"><input type="checkbox"/> Alternative location</p> <p><input type="checkbox"/> Alternative configuration</p> <p><input type="checkbox"/> Alternative location of discharge</p> <p><input type="checkbox"/> Limited Disturbed Area</p> <p><input type="checkbox"/> Limiting Extent &amp; Duration of Disturbance (Phasing, Sequencing)</p> <p><input type="checkbox"/> Riparian Buffers (150 ft. min.)</p> <p><input type="checkbox"/> Riparian Forest Buffer (150 ft. min.)</p> <p><input type="checkbox"/> Other _____</p>		<p><b>Nondischarge BMPs</b></p> <p><input type="checkbox"/> Alternative Siting</p> <p style="padding-left: 20px;"><input type="checkbox"/> Alternative location</p> <p><input type="checkbox"/> Alternative configuration</p> <p><input type="checkbox"/> Alternative location of discharge</p> <p><input type="checkbox"/> Low Impact Development (LID / BSD)</p> <p><input type="checkbox"/> Riparian Buffers (150 ft. min.)</p> <p><input type="checkbox"/> Riparian Forest Buffer (150 ft. min.)</p> <p><input type="checkbox"/> Infiltration</p> <p><input type="checkbox"/> Water Reuse</p> <p><input type="checkbox"/> Other _____</p>	
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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	<i>Official Use Only</i>	PCSM/Site Restoration Plan	<i>Official Use Only</i>
<input type="checkbox"/> <b>Treatment BMPs:</b> <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 type="checkbox"/> Compost Filter Socks <input type="checkbox"/> Compost Filter Sock Sediment Basin <input type="checkbox"/> RCE w/ Wash Rack <input type="checkbox"/> <b>Land disposal:</b> <input type="checkbox"/> Vegetated filters <input type="checkbox"/> Riparian buffers <150ft. <input type="checkbox"/> Riparian Forest Buffer <150ft. <input type="checkbox"/> Immediate stabilization <input type="checkbox"/> <b>Pollution prevention:</b> <input type="checkbox"/> PPC Plans <input type="checkbox"/> Street sweeping <input type="checkbox"/> Channels, collectors and diversions lined with permanent vegetation, rock, geotextile or other non-erosive materials <input type="checkbox"/> <b>Stormwater reuse technologies:</b> <input type="checkbox"/> Sediment basin water for dust control <input type="checkbox"/> Sediment basin water for irrigation <input type="checkbox"/> <b>Other</b> _____		<input type="checkbox"/> <b>Treatment BMPs:</b> <input type="checkbox"/> Infiltration Practices <input type="checkbox"/> Wet ponds <input type="checkbox"/> Created wetland treatment systems <input type="checkbox"/> Vegetated swales <input type="checkbox"/> Manufactured devices <input type="checkbox"/> Bio-retention/infiltration <input type="checkbox"/> Green Roofs <input type="checkbox"/> <b>Land disposal:</b> <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 <input type="checkbox"/> <b>Pollution prevention:</b> <input type="checkbox"/> Street sweeping <input type="checkbox"/> Nutrient, pesticide, herbicide or other chemical application plan alternatives <input type="checkbox"/> PPC Plans <input type="checkbox"/> Non-structural Practices <input type="checkbox"/> Restoration BMPs <input type="checkbox"/> <b>Stormwater reuse technologies:</b> <input type="checkbox"/> Divert rainwater into impoundment <input type="checkbox"/> Underground storage <input type="checkbox"/> Spray/Drip Irrigation <input type="checkbox"/> <b>Other</b> _____	



**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)

**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 Phillip L. Tolliver, P.E.

Signature 

Professional Seal

Company Morris & Ritchie Associates, Inc.

Address 18 Boulden Circle, Suite 36, New Castle, DE 19720

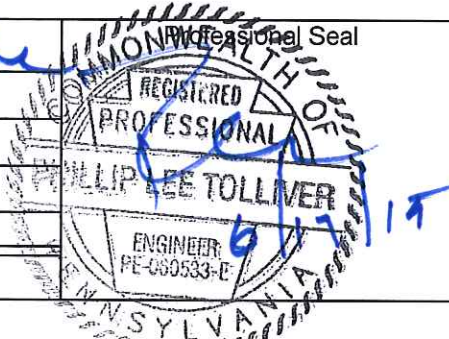
Phone (302) 326 - 2200

Most Recent DEP Training Attended

Location \_\_\_\_\_

Date \_\_\_\_\_

e-Mail Address [ptolliver@mragta.com](mailto:ptolliver@mragta.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.

Richard Welsh

Print Name and Title of Applicant



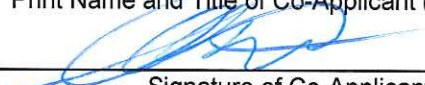
Signature of Applicant

JUNE 11, 2015

Date Application Signed

Charlie Barnett, Associate

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



Signature of Co-Applicant


JUNE 16, 2015

Date Application Signed

**Notarization**

Sworn to and subscribed to before me this

11<sup>th</sup> day of June, 2015



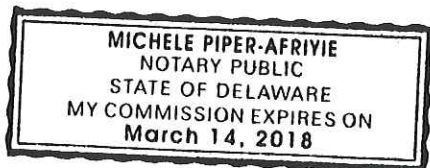
Notary Public

Commonwealth of Pennsylvania

County of \_\_\_\_\_

My Commission expires \_\_\_\_\_

AFFIX SEAL



SECTION K. CONTACT FOR ADDITIONAL INFORMATION			
Contact's Last Name	First Name	MI	Phone (302) 326-2200
Barnett	Charlie		FAX (302) 326-2399
Mailing Address	City	State	ZIP + 4
18 Boulden Circle, Suite 36	New Castle	DE	-197203494
e-Mail Address cbarnett@mragta.com			