E&S Module 1

January 2025

203698

EROSION AND SEDIMENT CONTROL PLAN

for the

RURA FIELD PROJECT

Black Lick and Center Townships
Indiana County, Pennsylvania

Prepared for

HOMER CITY GENERATION LP

1750 Power Plant Road
Homer City, PA 15748

Prepared by

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Moon Twp., Pennsylvania

Erosion and Sediment Pollution Control Plan

Rura Field Project

Homer City Generation LP

Indiana County, Pennsylvania

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Pennsylvania Department of Environmental Protection

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

DISCHARGES OF STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITIES EROSION AND SEDIMENT CONTROL (E&S) MODULE 1

Applicant: **Homer City Generation LP** Project Site Name: **Rura Field Project**

E&S PLAN INFORMATION

1. Describe the existing topographic features of the project site and the immediate surrounding area.

   The site location and area surrounding the proposed Rura Field project area is primarily agriculture with existing gas wells and overhead electric utility.

2. a. Complete the following table for soils present at the project site or attach a separate table.

Map Unit Symbol	Map Unit Name	Acres	HSG	% of Disturbed Area	Site-Specific Limitation	Hydric
	Refer to Attached Soil Report				☐	☐
					☐	☐
					☐	☐
					☐	☐

   b. If there are any site-specific soil limitations identified in the table above, discuss how the E&S Plan was designed to address those limitations.

   Refer to provided Soil Limitations Resolutions

   c. If hydric soils are present, is a wetland determination attached to this module? ☒ Yes ☐ No ☐ N/A

   If No, explain: _____

   d. If wetlands are found to be present, are a wetland delineation report and plan drawings showing the wetland boundary attached to this module? ☒ Yes ☐ No ☐ N/A

   e. Was environmental due diligence conducted for on-site soils to be disturbed? ☐ Yes ☒ No

   f. If on-site soils are known to be contaminated, 1) identify the pollutants exceeding Act 2 standards, 2) identify the extent of soil contamination on an E&S Plan Drawing that is attached to this module, and 3) describe the methods that will be used to avoid or minimize disturbance of the contaminated soils in the space provided below or separate sheet.

   N/A

3. Describe the characteristics of the earth disturbance activity, including the past (at least 50 years ago), present (within the past five (5) years) and proposed land uses and the proposed alteration to the project site.

   50 years ago: Agricultural, woods

   Past 5 years: Agricultural, gas wells, overhead electric utility

   Proposed Alteration: The proposed project consists of two (2) graded pads of approximately 26.7 acres and 65.1 acres, respectively. Development will include but is not limited to: earthwork, site grading, stormwater management and conveyance facilities.

4. Describe the volume and rate of runoff from the project site and its upstream watershed area.

   Proposed stormwater management BMPs will be implemented so that the volume difference from the 2-year, 24-hour storm event (pre- to post-) will be stored and so no increase in the post-development total runoff rate for all storms up to and including the 100-year, 24-hour storm event will occur.

5. Check boxes to indicate all BMPs that will be installed or implemented, indicate the number of BMPs on the project site, and describe any deviations from the E&S Manual.

E&S BMPs	No. BMPs	Deviation(s) from E&S Manual
☒ Rock Construction Entrance	**See drawing locations**	**None**
☐ Rock Construction Entrance with Wash Rack		
☐ Rumble Pad		
☒ Wheel Wash	**As needed**	**None**
☐ Temporary/Permanent Access Roads		
☐ Waterbar		
☐ Broad-based Dip		
☐ Open-top Culvert		
☐ Water Deflector		
☐ Roadside Ditch		
☐ Ditch Relief Culvert		
☐ Turnout		
☐ Compost Sock Sediment Trap		
☐ Temporary/Permanent Stream Crossing		
☐ Temporary/Permanent Wetland Crossing		
☐ Turbidity Barrier (Silt Curtain)		
☒ Dewatering Work Areas	**As needed**	**None**
☒ Pumped Water Filter Bag	**As needed**	**None**
☐ Sump Pit		
☒ Concrete Washout	**As needed**	**None**
☒ Compost Filter Sock	**See drawing locations**	**None**
☐ Compost Filter Berm		
☐ Weighted Sediment Filter Tube		
☐ Silt Fence (Filter Fabric Fence)		
☐ Reinforced Silt Fence		
☐ Super Silt Fence		

E&S BMPs	No. BMPs	Deviation(s) from E&S Manual
☐ Sediment Filter Log (Fiber Log)		
☐ Wood Chip Filter Berm		
☐ Straw Bale Barrier		
☒ Rock Filter	**As needed**	**None**
☐ Vegetative Filter Strip		
☐ Inlet Filter Bag		
☐ Stone Inlet Protection		
☒ Runoff Conveyance (Channel)	**See drawing locations**	**None**
☐ Bench		
☒ Top-of-Slope Berm	**See drawing locations**	**None**
☐ Temporary Slope Pipe		
☒ Sediment Basin	**Three**	**None**
☐ Sediment Trap		
☒ Riprap Apron	**See drawing locations**	**None**
☐ Flow Transition Mat		
☐ Stilling Basin (Plunge Pool)		
☐ Stilling Well		
☐ Energy Dissipater		
☐ Drop Structure		
☐ Earthen Level Spreader		
☒ Structural Level Spreader	**Three**	**None**
☐ Surface Roughening		
☒ Vegetative Stabilization	**See drawing locations**	**None**
☒ Erosion Control Blanket	**See drawing locations**	**None**
☐ Soil Binders		
☐ Sodding		
☐ Cellular Confinement Systems		
☐ Alternative:		
☐ Alternative:		

6.	☒	E&S Plan Drawings have been developed for the project and are attached to the NOI/application.
7.	☒	All applicable Standard E&S Worksheets from Appendix B of the E&S Manual, or other calculations equivalent to Appendix B Worksheets, have been completed and are attached to the NOI/application.
8.	☒	Supporting E&S BMP calculations are attached to the NOI/application.
9.	☒	A complete sequence of BMP installation and removal in relation to the scheduling of earth disturbance activities, prior to, during and after earth disturbance activities, that ensures the proper functioning of all BMPs is provided on the E&S Plan Drawings.
10.	☒	A cut/fill balance sheet with soil volumes identified is attached.
11.	☒	BMPs will be inspected on a weekly basis and after measurable storm events (i.e., at least 0.25 inch).
12.	☒	The following information relating to temporary stabilization measures is identified on the E&S Plan Drawings: 1) vegetative species, 2) % pure live seed, 3) seed application rate, 4) fertilizer type, 5) fertilizer application rate, 6) mulch type, 7) mulching rate, and 8) liming rate.
13.	☒	The following information relating to permanent stabilization measures is identified on the E&S Plan Drawings: 1) vegetative species, 2) % pure live seed, 3) seed application rate, 4) fertilizer type, 5) fertilizer application rate, 6) mulch type, 7) mulching rate, 8) liming rate, 9) anchor material, 10) anchoring method, 11) rate of anchor material application, 12) topsoil placement depth, and 13) seeding season dates.
14.	☒	The procedures that will be taken to ensure that recycling or disposal of materials associated with or from the project site will be conducted properly is described on the E&S Plan Drawings.
15.	☒	The E&S Plan has been planned, designed, and will be implemented to be consistent with the PCSM Plan.
16.	☐	The project includes existing and/or proposed riparian forest buffers as shown on the E&S / PCSM Plan Drawings.
17.	☒	Construction dewatering is expected and BMPs for treating this water are shown on E&S Plan Drawings.

18. Identify the presence of any naturally occurring geologic formations or soil conditions that may have the potential to cause pollution during earth disturbance activities below. If such formations or conditions exist, identify BMPs on the E&S Plan Drawings that will be implemented to avoid or minimize potential pollution. (Enter "N/A" if not applicable).

    As per 102.4.(b)(5)(xii) of the PA Code, the project E&S Plan shall identify naturally occurring geologic formations or soil conditions that may have the potential to cause pollution during earth disturbance activities and include BMPs to avoid or minimize potential pollution and its impacts from the formations. For the proposed project, it is anticipated that proposed BMPs will be sufficient to manage and control limitations that may be exhibited by the soils contained within the project site during and upon completion of construction. Refer to the Soil Limitations Resolutions provided with this permit application.At a minimum, BMPs will be installed where indicated on the plan drawings to prevent erosion and sedimentation during and upon completion of construction. Severe erosion hazard limitations will be reduced by soil stabilization through the application of FGM and temporary/permanent vegetative stabilization. Sedimentation and siltation limitations will be prevented through the installation of filtration BMPs, such as compost filter sock. Special measures to be implemented during earth disturbance activities associated with construction will include the segregation of topsoil. Soils disturbed during construction activities will be replaced, re-vegetated and stabilized. No acid-producing rock formations are anticipated to be present or encountered. However, if any material is found to be present at the site, the material will be handled in accordance with PADEP Fact Sheet 5600-FS-DEP4284.

19. Identify whether the potential exists for thermal impacts to surface waters from the earth disturbance activity below. If such potential exists, identify BMPs on the E&S Plan Drawings that will be implemented to avoid, minimize, or mitigate potential thermal impacts.

    As per 102.4.(b)(5)(xiii) of the PA Code, the project E&S Plan shall identify potential thermal impacts to surface waters as a result of earth disturbance activities. For the proposed project, thermal impacts have been avoided, minimized, or mitigated to the greatest extent possible due to the nature of the project scope. No permanent pools are anticipated as a result of proposed earth disturbance activities. Runoff from the site will flow over long stretches of vegetated areas before reaching receiving streams which will provide for additional cooling and infiltration. Additionally, shade areas will be preserved to the greatest extent possible.

E&S PLAN DEVELOPER

☒ I am trained and experienced in E&S control methods.

No. years of experience preparing E&S Plans: **6**

☒ I am a licensed professional.

☐ I am a certified E&S professional.

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E&S Plan Developer Signature

1/15/2025

Date