



**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGES OF STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITIES
EROSION AND SEDIMENT CONTROL (E&S) MODULE 1**

Applicant: **AAMPA Holdings, LLC**

Project Site
Name:

AAMPA Holdings - Ritner Hwy

Surface Water
Name(s): **Big Spring Creek**

Surface Water Use(s): **HQ-CWF**

E&S PLAN INFORMATION

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

The site is currently an agricultural field with an abandoned house and other farm buildings and a gravel driveway.

2. Complete the following table for soils present at the project site.

Map Unit Symbol	Map Unit Name	Acres	HSG	% of Disturbed Area	Depth (ft)	Hydric
	See Attached Soil Table					☐
						☐
						☐

Discuss any soil limitations and how the E&S Plan was designed to address those limitations.

CUTBANKS WILL BE LIMITED TO 3:1 MAXIMUM SLOPE

STORMDRAIN PIPES ARE PROPOSED TO BE HDPE

DISTURBED AREAS SHALL BE LIMITED TO MINIMUM NECESSARY FOR CONSTRUCTION IN PROCESS

IF GROUNDWATER IS ENCOUNTERED WHEN EXCAVATING, WATER SHALL BE PUMPED INTO A FILTER BAG

IF SATURATED SOILS ARE ENCOUNTERED, A GEOTECHNICAL ENGINEER SHALL PROVIDE RECOMMENDATIONS FOR REMEDIATION. DE-WATERING MAY BE NECESSARY DURING CONSTRUCTION PER NRCS SOIL SURVEY THIS SOIL SERIES IS NOT HYDRIC.

IF UNSUITABLE SOILS ARE ENCOUNTERED, A GEOTECHNICAL ENGINEER SHALL PROVIDE RECOMMENDATIONS FOR REMEDIATION.

INFILTRATION BMPs HAVE BEEN TESTED FOR ADEQUATE PERCOLATION

IF PIPING IS ENCOUNTERED, A GEOTECHNICAL ENGINEER SHALL PROVIDE RECOMMENDATIONS FOR REMEDIATION.

TOPSOIL SHALL BE TESTED AND AMENDED, AS NECESSARY.

ADEQUATE BASE WILL BE PROVIDED FOR PAVED AREAS AND FOUNDATIONS WILL EXTEND BELOW FROST LINE.

ADEQUATE BASE WILL BE PROVIDED FOR PAVED AREAS TO AVOID SHRINK/SWELL DAMAGE.

IF SINKHOLES ARE ENCOUNTERED, A GEOTECHNICAL ENGINEER SHALL PROVIDE RECOMMENDATIONS FOR REMEDIATION.

IF GROUNDWATER IS ENCOUNTERED WHEN EXCAVATING, WATER SHALL BE PUMPED INTO A FILTER BAG OUTLETING ON AN EXISTING STABILIZED AREA.

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

If soils are known to be contaminated, 1) identify the pollutants exceeding Act 2 standards in the space provided below, 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.

n/a

3. Describe the characteristics of the earth disturbance activity, including the past, present and proposed land uses and the proposed alteration to the project site.

The site is currently an agricultural field with abandoned farm buildings. The proposed use is 3 warehouses with the associated trailer parking, employee vehicle parking and driveways. Bypass pipes will convey upstream watersheds through the site and MRC subsurface infiltration basins and bio-retention ponds will manage the runoff generated by the proposed impervious coverage.

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

This site has one outlet poithat is the North-Western property line. There are upstream waterhseds that will enter bypass pipe systems, conveyed through thsite, and outletted at the north-western property line. The proposed impervious will be treated by subsurface infiltration basins and bio-retention pond. These BMP's were designed to manage the volume, rate and quality requirements.

5. Check boxes to indicate all BMPs that will be installed or implemented, identify plan numbers for the BMPs, and describe any deviations from the E&S Manual.

E&S BMPs	Plan No(s). Identified	Plan No(s). for O&M	Deviation(s) from E&S Manual
☒ Rock Construction Entrance	C-601, C-603 C-604	C-608	150' RCE in Special Protection Watershed
☐ Rock Construction Entrance with Wash Rack			
☐ Rumble Pad			
☐ Wheel Wash			
☐ Temporary and Permanent Access Roads			
☐ Waterbar			
☐ Broad-based Dip			
☐ Open-top Culvert			
☐ Water Deflector			
☐ Roadside Ditch			
☐ Ditch Relief Culvert			
☐ Turnout			
☐ Compost Sock Sediment Trap			
☐ Temporary Stream Crossing			
☐ Temporary Wetland Crossing			
☐ Turbidity Barrier (Silt Curtain)			
☐ Dewatering Work Areas			
☒ Pumped Water Filter Bag	N/A	C-608	
☐ Sump Pit			
☐ Waste Management			
☒ Concrete Washout	C-604	C-608	
☒ Compost Filter Sock	C-601, C-603 C-604	C-608	
☐ Compost Filter Berm			
☐ Weighted Sediment Filter Tube			
☐ Rock Filter Outlet			
☐ Silt Fence (Filter Fabric Fence)			
☐ Reinforced Silt Fence			

☐ Super Silt Fence (Super Filter Fabric Fence)			
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E&S BMPs	Plan No(s). Identified	Plan No(s). for O&M	Deviation(s) from E&S Manual
☐ Sediment Filter Log (Fiber Log)			
☐ Wood Chip Filter Berm			
☐ Straw Bale Barrier			
☐ Rock Filter			
☐ Vegetative Filter Strip			
☒ Inlet Filter Bag	C-603 - C-607	C-608	
☐ Stone Inlet Protection			
☒ Runoff Conveyance (Channel)	C-601 - C-607	C-611	
☐ Bench			
☐ Top-of-Slope Berm			
☐ Temporary Slope Pipe			
☒ Sediment Basin	C-601, C-602	C-610	
☐ Sediment Trap			
☒ Riprap Apron	C-603 - C-607	C-608	
☐ Flow Transition Mat			
☐ Stilling Basin (Plunge Pool)			
☐ Stilling Well			
☐ Energy Dissipater			
☐ Drop Structure			
☐ Earthen Level Spreader			
☐ Structural Level Spreader			
☐ Surface Roughening			
☐ Vegetative Stabilization			
☐ Erosion Control Blanket			
☐ Soil Binders			
☐ Sodding			
☐ Cellular Confinement Systems			
☐ Alternative:			

☐ Alternative:			
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Table 1 – For PAG-01 applicants, complete the requested information for each selected E&S BMP, where applicable.

Site Access BMPs									
BMP Name	No.	Length (ft)	Width (ft)	% Slope	Spacing (ft)	Length of Upslope Drainage (ft)	Culvert Diameter (in)	Soil Type in Ditch	E&S Manual Figure/Detail No.
Rock Construction Entrance (RCE)									
RCE with Wash Rack									
Temporary and Permanent Access Roads – Crowned Roadway									
Temporary and Permanent Access Roads – Insloped Roadway									
Waterbar									
Broad-based Dip									
Open-top Culvert									
Water Deflector									
Roadside Ditch									
Ditch Relief Culvert									
Sediment Barriers / Filters									
BMP Name	DA (ac)	Diameter (in)	Storage Capacity (cf)	Trap Height (in)	% Slope	Slope Length Above Barrier (ft)	Barrier Height (in)	E&S Manual Figure/Detail No.	
Compost Sock Sediment Trap									
Compost Filter Sock									
Compost Filter Berm									
Silt Fence (Filter Fabric Fence)									
Super Silt Fence									
Sediment Filter Log									
Weighted Sediment Filter Tube									
Straw Bale Barrier									
Wood Chip Filter Berm									
Toe-of-Slope Berm									

Table 1 – For PAG-01 applicants, complete the requested information for each selected E&S BMP, where applicable.

Runoff Conveyance BMPs													
BMP Name	Temporary	Design Storm	DA (ac)	Multiplier	Qr (cfs)	Q (cfs)	Manning's n	Va (fps)	V (fps)	D (ft)	d (ft)	Flow Depth Ratio	E&S Manual Figure/Detail No.
Vegetated Channel	☐												
Sodded Channel	☐												
Riprap Channel	☐												
Energy Reduction BMPs													
BMP Name	Downstream Distance to Drainage Course (ft)		Downstream % Slope		DA (ac)	Discharge (cfs)	Manhole Depth (ft)	Inflow Pipe Diameter (in)	Outlet Pipe Diameter (in)	E&S Manual Figure/Detail No.			
Level Spreader													
Drop Structure													
Stilling Basins / Wells													
BMP Name	Pipe Diameter (in)	Discharge (cfs)	Well Diameter (in)	Depth of Well Below Invert (ft)	Basin Depth (ft)	Median Riprap Size (in)	Distance from Discharge Pipe to Basin Center (ft)	E&S Manual Figure/Detail No.					
Stilling Basin													
Stilling Well													
Other BMPs													
BMP Name	DA (ac)	Pipe Diameter (in)	Berm Height (in)	Length (ft)	% Slope	Vertical Spacing (ft)	Channel Depth (ft)	Riprap Size	Riprap Thickness (in)	Initial Width (ft)	Terminal Width (ft)	E&S Manual Figure/Detail No.	
Temporary Slope Pipe													
Bench													
Rock Filter													
Riprap Apron													

For selected BMPs not identified in Table 1, report the name of the BMP and the Figure or Detail No. from the E&S Manual that will be used for design and implementation (PAG-01 only).

BMP Name	E&S Manual Figure/Detail No.	BMP Name	E&S Manual Figure/Detail No.

6. ☒ All applicable Standard E&S Worksheets from Appendix B of the E&S Manual have been completed and are attached.
7. ☒ Other worksheets or calculations equivalent to Appendix B of the E&S Manual have been completed and are attached.
8. Identify the E&S Plan Drawing number(s) that describes the sequence of BMP installation and removal in relation to the scheduling of earth disturbance activities, prior to, during and after earth disturbance activities that ensure the proper functioning of all BMPs.
C-601
9. ☐ Supporting E&S calculations have been completed and are available upon request (PAG-01 only).
10. ☒ Supporting E&S calculations are attached to the NOI/application.
11. ☐ Plan drawings consist of standard Figures/Construction Details in E&S Manual (PAG-01 only).
12. ☒ Plan drawings have been developed for the project and are attached to the NOI/application.
13. ☒ BMPs will be inspected on a weekly basis and after measurable storm events (i.e., at least 0.25 inch).
14. Identify the following information relating to temporary stabilization measures on an E&S Plan Drawing and identify the Drawing No. below: 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.
E&S Plan Drawing No(s): **C-608**
15. Identify the following information relating to permanent stabilization measures on an E&S Plan Drawing and identify the Drawing No. below: 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.
E&S Plan Drawing No(s): **C-608**
16. Describe 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.
Wastes generated during the construction of this project shall be recycled if at all possible. This shall include the erosion control BMPs. Any materials that cannot be recycled or reused shall be disposed of at a NPDES permitted site. If soil and/or rock disposal or borrow areas are required, approved erosion and sedimentation controls shall be implemented at these areas that meet Chapter 102 and/or other state and federal regulations.
All building materials and wastes must be removed from the site and recycled or disposed in accordance with the department's solid waste management regulations at 25 PA. Code 260.1 et seq. 271.1, and 287.1 et seq. No building materials or waste unused building materials shall be burned, buried, dumped or discharged at the site.
17. Identify the presence of any naturally occurring geologic formations or soil conditions that may have the potential to cause pollution during earth disturbance activities. If such formations or conditions exist, identify BMPs that will be implemented to avoid or minimize potential pollution.
Per "Pennsylvania Geological Survey, 2005, Geologic units containing potentially significant acid-producing sulfide minerals: Pennsylvania Geological Survey, 4th ser., Open-File Report OFMI 05-01.1, 9 p." there are no minerals (e.g. pyrite) in sufficient quantities to cause concern of discharges which do not meet water quality standards. The site is in an area with "Karst" geology and there is the potential for sinkholes. If sinkholes are discovered during construction they shall be mitigated under the direction of a Geotechnical Engineer.

18. Identify whether the potential exists for thermal impacts to surface waters from the earth disturbance activity. If such potential exists, identify BMPs that will be implemented to avoid, minimize, or mitigate potential thermal impacts.

Thermal impacts are minimized by primarily utilizing perimeter control measures with sheet flow. No sediment traps or basins are being proposed for these purposes.

19. ☒ The E&S Plan has been planned, designed, and will be implemented to be consistent with the PCSM Plan.

20. If applicable, identify existing and proposed riparian forest buffers on E&S and PCSM Plan Drawings and identify the Drawing No(s) below (select N/A if not applicable).

E&S Plan Drawing No(s):

☒ N/A

PCSM Plan Drawing No(s):

E&S PLAN DEVELOPER

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

☒ I am a licensed professional.

Name: **Justin Doty**

Title: **Professional Engineer**

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License No.: **PE080613**

License Type: **Professional Engineer**

Exp. Date: **09-30-2025**

E&S Plan Developer Signature

05-09-2024

Date

AAMPA Holdings - Ritner Hwy

Site Soil Data

Map Unit Symbol	Map Unit Name	Acres	HSG	% of Disturbed Area	Depth (ft)	Hydric
DuB	Duffield Silt Loam, 3-8% Slopes	27.9	B	24.7		Y
HaB	Hagerstown Silt Loam, 3-8% Slopes	4.7	B	4.2		N
HcB	Hagerstown Silt Loam, rocky, 3-8% Slopes	25.4	B	22.5		N
HcC	Hagerstown Silt Loam, rocky, 8-15% Slopes	15.8	B	14.0		N
HdB	Hagerstown Rock Outcrop Complex, 0-8% Slopes	9.3	B	8.2		N
HdD	Hagerstown Rock Outcrop Complex, 8-25% Slopes	24.2	B	21.5		N
HuA	Huntington Silt Loam, 0-5% Slopes	5.5	B	4.90		Y