pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER

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

Applicant:	Project Site Name:
PROLOGIS	**7464 & 7600 LINGLESTOWN ROAD SITE**

Surface Water Name(s):	Surface Water Use(s):
U.N.T TO BEAVER CREEK (TRIB 09452)	**NONE**
U.N.T TO BEAVER CREEK (TRIB 09452) VIA WETLAND	**NONE**
U.N.T TO BEAVER CREEK (TRIB 09468)	**NONE**
U.N.T TO WALNUT CREEK (TRIB 09596)	**NONE**
U.N.T TO WALNUT CREEK (TRIB 09590) VIA WETLAND	**NONE**

E&S PLAN INFORMATION

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

   REFERENCE "EXISTING SITE CONDITIONS" SECTION OF E&S REPORT – PAGE 1

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
REFERENCE APPENDIX B OF E&S REPORT FOR FULL SOIL REPORT						

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

   REFERENCE "SOIL LIMITATION AND RESOLUTIONS" SECTION ON SHEET ES 15.2 OF E&S PLAN

   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.

   NO KNOWN SOIL CONTAMINATION

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.

   REFERENCE "INTRODUCTION & PROJECT DESCRIPTION" SECTION OF E&S REPORT – PAGE 1

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

   REFERENCE THE FOLLOWING SECTIONS OF PCSM REPORT:
   "STORMWATER MANAGEMENT" – PAGE 3
   "PEAK DISCHARGE RATE DISCUSSION" – PAGE 4
   "STORMWATER RUNOFF VOLUME DISCUSSION" – PAGE 6

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	**ES 12.3, 13.3**	**ES 15.2**	**N/A**
☐ 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	**ES 14.1-14.3**	**ES 15.3**	**N/A**
☐ Sump Pit			
☐ Waste Management			
☒ Concrete Washout	**ES 12.3, 13.3**	**ES 15.3**	**N/A**
☒ Compost Filter Sock	**ES 12.1-12.3**	**ES 15.4**	**N/A**
☐ 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)			

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	**ES 12.3, 13.2**	**ES 15.4**	**N/A**
☐ Vegetative Filter Strip			
☒ Inlet Filter Bag	**ES 13.1-13.3, 14.1-14.3**	**ES 15.3**	**N/A**
☐ Stone Inlet Protection			
☐ Runoff Conveyance (Channel)			
☐ Bench			
☐ Top-of-Slope Berm			
☐ Temporary Slope Pipe			
☒ Sediment Basin	**ES 12.1-12.2, 13.1-13.2**	**ES 15.5**	**N/A**
☐ Sediment Trap			
☒ Riprap Apron	**ES 12.2, 13.2-13.3**	**ES 15.4**	**N/A**
☐ Flow Transition Mat			
☐ Stilling Basin (Plunge Pool)			
☐ Stilling Well			
☐ Energy Dissipater			
☐ Drop Structure			
☐ Earthen Level Spreader			
☒ Structural Level Spreader	**ES 12.1**	**ES 15.4**	**N/A**
☐ Surface Roughening			
☐ Vegetative Stabilization			
☒ Erosion Control Blanket	**ES 12.1-14.3**	**ES 15.2**	**N/A**
☐ Soil Binders			
☐ Sodding			
☐ Cellular Confinement Systems			
☒ Alternative: **Rock/Sock Filter**	**ES 12.2**	**ES 15.4**	

☐ Alternative:			

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)	**N/A**								
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	**N/A**							
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	**N/A**												
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	**N/A**							
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	**N/A**							
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	**N/A**											
Bench												
Rock Filter												
Riprap Apron												