

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) DISCHARGES OF STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITIES ANTIDEGRADATION ANALYSIS MODULE 3

Applicant: Relteva, LLC Project Site Name: Relteva Development

Limited Disturbed Area

Surface Water Name: UNT to Pennypack Creek

Surface Water Use: TSF, MF

ANTIDEGRADATION - EROSION AND SEDIMENT CONTROL (E&S) PLAN

A Non-Discharge Alternative will be utilized for the project that will either individually or collectively <u>eliminate</u> the northeange in stormwater volume, rate, and quality for storm events up to and including the 2-year/24-hour storm <u>during</u> early disturbance activities.				
Identify the E&S BMP(s) that will be utilized to achieve the non-discharge alternative:				
Alternative Siting: Location		Limiting Extent & Duration of Disturbance		
Alternative Siting: Configuration		Riparian Buffer (150 ft min.)		
Alternative Siting: Location of Discharge		Riparian Forest Buffer (150 ft min.)		

	Alternative	Siting:	Location	of Discharge
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Explain how the E&S BMP(s) will individually or collectively eliminate the net change in stormwater volume, rate, and quality for storm events up to and including the 2-year/24-hour storm during earth disturbance activities.

If a Non-Discharge Alternative will not be utilized, explain the rationale for non-selection, including why none of the alternatives are considered environmentally sound and cost-effective.

The alternative siting BMPs listed above (location, configuration, location of discharge) and limiting extent, duration and area of disturbance are not feasible because the amount of space required for the operation of this warehouse development and the size of the property does not allow for the relocation or reconfiguration of the development, it would not be cost effective to reduce the size of the operation. Infiltration is not feasible due to environmental concerns on-site. Riparian buffers are not feasible because there are no waterbodies or wetlands located on, or in close proximity to, the site.

Antidegradation Best Combination of Technologies (ABACT) BMP(s) will be utilized for the project that will either individually or collectively manage the net change in stormwater volume, rate, and quality for storm events up to and including the 2-year/24-hour storm during earth disturbance activities.

Identify the ABACT E&S BMP(s) that will be utilized:

\Box	Rock Construction Entrance with Wash Rack	\Box	Rock Construction Entrance with Street Sweeping
	Wheel Wash		Pumped Water Filter Bag with Compost Sock Ring
	Pumped Water Filter Bag with Sump Pit	\boxtimes	Compost Filter Sock
	Compost Filter Berm (HQ Only)		Weighted Sediment Filter Tube (HQ Only)
	Silt Fence with Vegetative Filter Strip		Super Silt Fence with Vegetative Filter Strip
	Wood Chip Filter Berm (HQ Only)		Vegetative Filter Strip (HQ Only)
	Sediment Basin with Perforated Riser (HQ Only)		Sediment Basin with Skimmer
	Stone Inlet Protection with Compost Layer (HQ Only)		Compost Filter Sock Sediment Trap
	Embankment Sediment Trap with Compost Layer (HQ Only)		Embankment Sediment Trap with Compost Sock
	Sediment Trap with Perforated Riser (HQ Only)		Sediment Trap with Skimmer
	Erosion Control Blankets within 50 ft of Surface Waters		Immediate Stabilization
	Flocculant with PAMs		Vegetative Conveyance

	□ Riparian Buffer (< 150 ft)			☐ Riparian Forest Buffer (< 150 ft)				
		Approved	Alternative:	Alternative Entrance	Rock	Constructio	n	
Explain how the E&S BMP(s) will individually or collectively <u>manage</u> the net change ir for storm events up to and including the 2-year/24-hour storm <u>during</u> the earth disturb				e net change in stormwater volume, rate, and quality e earth disturbance activities.				
	During this phase of construction, most of the existing impervious surfaces will be removed and no new impervious is proposed. This will reduce the volume and rate of runoff leaving the site. Water quality will be addressed by utilizing compost filter sock around the perimeter of the site which will keep sediment from leaving the site.							
		ANTID	EGRADATIC	ON – POST-CO	NSTRUC	CTION STOR	MW	ATER MANAGEMENT (PCSM) PLAN
	A Non-Discharge Alternative will be utilized for the project that either individually or collectively eliminate the net change in stormwater volume, rate, and quality for storm events up to and including the 2-year/24-hour storm <u>after</u> earth disturbance activities.							
	Iden	ntify the PC	CSM BMPs the	at will be used to	o achieve	the non-disch	arge	e alternative:
		Alternativ	ve Siting: Loca	ation				Low Impact Development
		Alternativ	ve Siting: Con	figuration				Riparian Buffer (150-ft. min.)
		Alternativ	ve Siting: Loca	ation of Discharg	ge			Riparian Forest Buffer (150-ft. min.)
		Infiltration	n					Water Reuse
	 □ Placing fill across the site with the installation of E&S controls. Existing □ Other: impervious surfaces will be removed, and no new impervious is proposed under this phase. ABACT BMPs will be proposed for the development phase of this project to manage the increase in runoff and treat for water quality. 							
	Explain how the PCSM BMP(s) will individually or collectively <u>eliminate</u> the net change in stormwater volume, rate, an quality for storm events up to and including the 2-year/24-hour storm <u>after</u> earth disturbance activities. If a Non-Discharge Alternative will not be utilized , explain the rationale for non-selection, including why none of th							
	alter	rnatives ar	e considered	environmentally	sound ar	nd cost-effecti	ve.	
	The alternative siting BMPs listed above (location, configuration, location of discharge) and low impact development are not feasible because the amount of space required for the operation of this warehouse development and the size of the property does not allow for the relocation or reconfiguration of the development, it would not be cost effective to reduce the size of the operation. Infiltration is not feasible due to environmental concerns on-site. Riparian buffers are not feasible because there are no waterbodies or wetlands located on, or in close proximity to, the site. It is not cost effective to reuse all of the stormwater generated from this development.							
	Antidegradation Best Combination of Technologies (ABACT) has been selected for the project that will either individually or collectively <u>manage</u> the net change in stormwater volume, rate, and quality for storm events up to and including the 2-year/24-hour storm <u>after</u> earth disturbance activities.							
	Iden	ntify the AE	BACT PSCM E	BMPs that will b	e utilized:			
		Rain Garc	len (with Infiltr	ation)				Disconnection of Impervious / Roof Area
		Rain Garc	len (without In	filtration)				Pervious Pavement with Infiltration Bed
		Construct	ed Filter					Infiltration Basin

3800-PM-BCW0406c 12/2019 **Antidegradation Module 3** Vegetated Swale Infiltration Bed Vegetated Filter Strip Infiltration Trench Constructed Wetland Soil Amendment Wet Pond Dry Well / Seepage Pit Dry Extended Detention Basin Infiltration Berm / Retentive Grading Water Quality Device Protect Sensitive / Special Value Features Spray / Drip Irrigation Street Sweeping Rain Barrel Green Roof Protect / Utilize Natural Flow Pathways (on-site) Approved Alternative: \square Explain how the PCSM BMP(s) will individually or collectively manage the net change in stormwater volume, rate, and quality for storm events up to and including the 2-year/24-hour storm after earth disturbance activities.

CERTIFICATION

I certify under penalty of law and subject to the penalties of 18 Pa.C.S. § 4904 (relating to unsworn falsification to authorities) that this document and all attachments were prepared 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. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Applicant Name (type or print legibly)

Official Title

Applicant Signature

Date Signed