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
ANTIDEGRADATION ANALYSIS MODULE 3

Applicant: **M&G REALTY, INC.** Project Site Name: **RUTTERS #82**

Surface Water Name: **TRIB. 16017 TO SANDY RUN** Surface Water Use: **HQ-CWF**

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

☐ A **Non-Discharge Alternative will be utilized** for the project that will 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 during earth disturbance activities.

Identify the E&S BMP(s) that will be utilized to achieve the non-discharge alternative:

- ☐ Alternative Siting: Location
- ☐ Alternative Siting: Configuration
- ☐ Alternative Siting: Location of Discharge
- ☐ Other: _____
- ☐ Limiting Extent & Duration of Disturbance
- ☐ Riparian Buffer (150 ft min.)
- ☐ Riparian Forest Buffer (150 ft min.)
- ☐ Limited Disturbed Area

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 BMP's listed above (location, configuration, location of discharge) and limiting extent, duration and area of disturbance are not feasible because the proposed location of the convenience store (at the intersection of Pleasant Valley Blvd and Sabbath Rest Road) has been selected for visibility and market conditions. Relocating the disturbance elsewhere on the site would not affect the volume, rate or water quality during construction. Futher, the size of the building and assocaited parking facilities have been designed to accommodate the anticipated customer base and vehicles. Per the Geotech Report, infiltration is not feasible due to underlying rock and required earthwork cut associated with the steep topography. Finally, riparian buffers are not feasible because there are no waterbodies ro 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:

- ☒ Rock Construction Entrance with Wash Rack
- ☐ Wheel Wash
- ☐ Pumped Water Filter Bag with Sump Pit
- ☐ Compost Filter Berm (HQ Only)
- ☐ Silt Fence with Vegetative Filter Strip
- ☐ Wood Chip Filter Berm (HQ Only)
- ☐ Sediment Basin with Perforated Riser (HQ Only)
- ☐ Stone Inlet Protection with Compost Layer (HQ Only)
- ☐ Embankment Sediment Trap with Compost Layer (HQ Only)
- ☐ Sediment Trap with Perforated Riser (HQ Only)
- ☐ Rock Construction Entrance with Street Sweeping
- ☐ Pumped Water Filter Bag with Compost Sock Ring
- ☒ Compost Filter Sock
- ☐ Weighted Sediment Filter Tube (HQ Only)
- ☐ Super Silt Fence with Vegetative Filter Strip
- ☐ Vegetative Filter Strip (HQ Only)
- ☒ Sediment Basin with Skimmer
- ☐ Compost Filter Sock Sediment Trap
- ☐ Embankment Sediment Trap with Compost Sock
- ☐ 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: _____

Explain how the E&S 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 during the earth disturbance activities.

ANTIDEGRADATION – POST-CONSTRUCTION STORMWATER 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 after earth disturbance activities.

Identify the PCSM BMPs that will be used to achieve the non-discharge alternative:

☐ Alternative Siting: Location	☐ Low Impact Development
☐ Alternative Siting: Configuration	☐ Riparian Buffer (150-ft. min.)
☐ Alternative Siting: Location of Discharge	☐ Riparian Forest Buffer (150-ft. min.)
☐ Infiltration	☐ Water Reuse
☐ Other: _____	

Explain how the PCSM 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 after 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 BMP's listed above (location, configuration, location of discharge) and limiting extent, duration and area of disturbance are not feasible because the proposed location of the convenience store (at the intersection of Pleasant Valley Blvd and Sabbath Rest Road) has been selected for visibility and market conditions. Relocating the disturbance elsewhere on the site would not affect the volume, rate or water quality during construction. Futher, the size of the building and assocaited parking facilities have been designed to accommodate the anticipated customer base and vehicles. Per the Geotech Report, infiltration is not feasible due to underlying rock and required earthwork cut associated with the steep topography. Finally, riparian buffers are not feasible because there are no waterbodies ro wetlands located on, or in close proximity to, the site.

☒ **Antidegradation Best Combination of Technologies (ABACT) has been selected** 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 after earth disturbance activities.

Identify the ABACT PSCM BMPs that will be utilized:

☐ Rain Garden (with Infiltration)	☐ Disconnection of Impervious / Roof Area
☒ Rain Garden (without Infiltration)	☐ Pervious Pavement with Infiltration Bed
☐ Constructed Filter	☐ Infiltration Basin
☒ Vegetated Swale	☐ Infiltration Bed
☐ Vegetated Filter Strip	☐ Infiltration Trench
☐ Constructed Wetland	☒ Soil Amendment

- ☐ Wet Pond
- ☒ Dry Extended Detention Basin
- ☒ Water Quality Device
- ☐ Spray / Drip Irrigation
- ☐ Rain Barrel
- ☐ Protect / Utilize Natural Flow Pathways (on-site)
- ☐ Dry Well / Seepage Pit
- ☐ Infiltration Berm / Retentive Grading
- ☐ Protect Sensitive / Special Value Features
- ☒ Street Sweeping
- ☐ Green Roof

☐ Approved Alternative: _____

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.

TIM RUTTER	PRESIDENT
Applicant Name (type or print legibly)	**Official Title**
Applicant Signature	**Date Signed**

- ☐ Wet Pond
- ☒ Dry Extended Detention Basin
- ☒ Water Quality Device
- ☐ Spray / Drip Irrigation
- ☐ Rain Barrel
- ☐ Protect / Utilize Natural Flow Pathways (on-site)
- ☐ Dry Well / Seepage Pit
- ☐ Infiltration Berm / Retentive Grading
- ☐ Protect Sensitive / Special Value Features
- ☒ Street Sweeping
- ☐ Green Roof

☐ Approved Alternative: _____

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.

TIM RUTTER
Applicant Name (type or print legibly)

Tim Rutter
Applicant Signature

PRESIDENT
Official Title

11/24/20
Date Signed