



DISCHARGES OF STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITIES ANTIDEGRADATION ANALYSIS MODULE 3

Applicant: **Mercer Node, LLC**

Project Site Name: **Mercer Node Development**

Surface Water Name: **Shenago**

Surface Water Use: **WWF**

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

- ☒ **Antidegradation Best Available 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 | ☐ Rock Construction Entrance with Street Sweeping |
| ☐ Wheel Wash | ☐ Pumped Water Filter Bag with Compost Sock Ring |
| ☐ Pumped Water Filter Bag with Sump Pit | ☒ 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: _____

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 SCMs 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 SCM(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.

☒ **Antidegradation Best Available 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 PCSM SCMs that will be utilized to achieve the ABACT standard:

- | | |
|--|---|
| ☐ 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 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: Underground Detention with Managed Release Control

Explain how the PCSM SCM(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.

The project development site's landcover in the pre-construction conditions is 100% impervious and in the post-construction is 100% impervious, therefore; in a pre-/post- comparison there is not a net increase in volume to the stormwater discharge points. Additionally, the increase in volume when modeled as 20% of the existing impervious as meadow in good condition is controlled by the proposed underground detention systems with manged release control. The underground detention systems have ben designed per the PA DEP white paper including pre-treatment of the stormwater.

CERTIFICATION

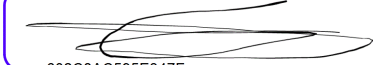
I certify under penalty of law and subject to the penalties of 18 Pa.C.S. § 4904 (relating to unsworn falsification to authorities) that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered 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.

Craig Hibbard

Applicant Name (type or print legibly)

SVP Infrastructure

Official Title

Signed by:

602C8AC595E347F...

Applicant Signature

6/4/2026

Date Signed