

Undisturbed Pervious Area Feasibility Checklist

Stormwater BMP Category

- Receiving Low Impact Development Practice

SWM Credits

- SWM Criteria #1:** Runoff Reduction
 - 90% reduction of RR_V conveyed through undisturbed pervious area on HSG A/B soils
 - 60% reduction of RR_V conveyed through undisturbed pervious area on HSG C/D soils
- SWM Criteria #2:** Water Quality Protection
 - 90% reduction of RR_V conveyed through undisturbed pervious area on HSG A/B soils
 - 60% reduction of RR_V conveyed through undisturbed pervious area on HSG C/D soils
- SWM Criteria #3:** Aquatic Resource Protection: Proportionally adjust CN to calculate ARP_V
- SWM Criteria #4:** Overbank Flood Protection: Proportionally adjust CN to calculate Q_{P25}
- SWM Criteria #5:** Extreme Flood Protection: Proportionally adjust CN to calculate Q_{P100}

Site Feasibility

Contributing Drainage Area

- $\leq 150'$ length of flow path in pervious contributing drainage area
- $\leq 75'$ length of flow path in impervious contributing drainage area

Surface Area of Undisturbed Pervious Area

- $\geq 50'$ length of flow path within the 'receiving' undisturbed pervious area
- $\geq 0.5\%$ and $\leq 6\%$ slope within the 'receiving' undisturbed pervious area

Site Topography

- $\leq 3\%$ slopes in the contributing drainage area; or
- $> 3\%$ slopes with terracing or level spreaders at 20' intervals

Water Table

- No restrictions

Soils

- No restrictions (although undisturbed pervious areas on HSG A/B provide greater benefits; consider soil restoration in HSG C/D soils)

Site Applicability

- Rural Use: Suitable for use on most rural (large lot) developments
- Suburban Use: Suitable for use on most suburban developments (e.g., designated open space areas)
- Urban Use: Generally not suitable due to lack of available space in urban/commercial areas
- Construction Costs: Low Medium High
- Maintenance: Low Medium High