



Suzanne E. Dorsey, Deputy Secretary
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Updated July 2025

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Once received, please allow between 60-120 days for a typical product evaluation. Please be aware that the Department does not have an expedited review process.

1. Contact Information and Product Details:

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Product Description:

- ☐ Indicate the type of approval being sought. Definitions for each type are included on page 6. Please check only ONE box.

- | | |
|---|--|
| ☐ ESD/Alternative Surface | ☐ Pretreatment Practice |
| ☐ ESD/Micro-Scale Practice | ☐ Redevelopment and Retrofit Practice |
| ☐ ESD Component | ☐ System Component |
| ☐ Structural Practice | ☐ Other |

If "System Component" has been selected above, indicate below which practice(s) in the 2000 Maryland Stormwater Design Manual the product will be a component of:

- ☐ Is there water quality documentation to verify that the product will perform and function equivalent to a practice listed in the 2000 Maryland Stormwater Design Manual (Manual) or the 2021 Accounting for Stormwater Wasteload Allocations and Impervious Acres Treated (2021 Accounting Guidance)? If yes, please record the name of the practice in the box below. *(The Department will evaluate all submitted data for final approval.)*
- ☐ Yes, my product performs and functions equivalent to a practice listed in the Manual. *(Complete section 2 below only. Documentation and testing to verify performance will be required).*

Indicate Name of Practice Below:

- ☐ No, my product does not perform and function equivalent to a practice listed in the Manual. *(Complete sections 2 through 4 below EXCEPT if applying for pretreatment or system component approval; if so, then complete section 2 only).*

2. Technology Specifications:

A description of the technology, including any components and processes, must be provided. The following information is required:

- ☐ General information about the technology and its function (e.g., a brochure or pamphlet);
- ☐ Test results and documentation demonstrating that the field application of the innovative practice complies with the performance standards in the Manual (e.g., for

standalone water quality practices, 80% removal of total suspended solids and 40% removal of total phosphorus);

- ☐ For pretreatment practice or system component applications, documentation demonstrating overall product performance (e.g., performance tests, field studies/reports);
- ☐ Standard drawings, including schematics of the technology and a process flow diagram;
- ☐ Design criteria (e.g., treatment volume calculations, media composition, drainage area limitations);
- ☐ Discussion of system hydraulics and sizing to meet performance standards and goals;
- ☐ Range of operating conditions, including minimum, maximum, and optimal conditions for achieving performance goals;
- ☐ Projected operation and maintenance requirements and procedures (e.g., a construction and maintenance guide or manual and a maintenance schedule);
- ☐ Discussion of any special licensing or hauling requirements, safety issues, and access requirements associated with the operation and maintenance of the technology.

3. Monitoring Plan Contents:

If there is inadequate documentation demonstrating compliance with the performance standards in the Manual or the 2021 Accounting Guidance, then field monitoring data and results demonstrating compliance with the general performance criteria found in Chapter 1, 2, and 5 of the Manual shall be submitted. Field monitoring must conform to the standards listed below.

Field monitoring results are required to support performance claims; laboratory testing is not acceptable. The monitoring plan should fully describe the procedures and techniques used to sample influent to and effluent from the alternative/innovative technology. The Department will accept field monitoring that conforms to the most recent methodology of either the Technology Acceptance Reciprocity Partnership (TARP) Protocol (New Jersey Center for Applied Technology, 2003) or the Technology Assessment Protocol – Ecology (TAPE, State of Washington, Department of Ecology, 2011), with the exception of the rainfall criteria listed below.

Rainfall Criteria: All practices must demonstrate compliance with the general performance standards listed in Section 1.2 of the Manual. Rainfall patterns (e.g., intensity, duration) may be different at a proposed monitoring location than those that are typically found in Maryland. To ensure that monitoring data reflect local conditions, the Department requires that the criteria listed below be met:

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Approval Definitions

Environmental Site Design (ESD) Practice (Alternative Surface, Micro-Scale Practice)

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ESD Component

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Structural Practice

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Pretreatment Practice

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Redevelopment and MS4 Retrofit Practice

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 Wasteload Allocations and Impervious Acres Treated Guidance for National Pollutant Discharge
 Elimination System Stormwater Permits (2021).*

System Component

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