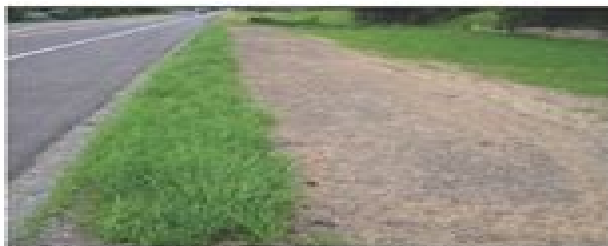


Media Filter Drain

VRA 03

Alternative names: formerly known as "ecology embankment"



Media Filter Drain Along SR 14 in Clark County, WA.
Source: Washington State DOT, 2011.

VOLUME REDUCTION PROCESSES

●	Overall volume reduction potential
●	Infiltration
⊗	Evapotranspiration
○	Consumptive use
○	Base-flow-mimicking discharge

URBAN HIGHWAY APPLICABILITY

●	Ground-level highways
●	Ground-level highways with restricted cross-sections
⊗	Ground-level highways on steep transverse slopes
○	Depressed highways
⊗	Elevated highways on embankments
○	Elevated highways on viaducts
●	Linear interchanges
●	Looped interchanges

● High ⊗ Moderate ○ Low

Description

This VRA consists of a stone vegetation-free zone, a grass strip, a media filter storage reservoir filled with specialized media, and a conveyance system for flows leaving the reservoir. This conveyance system usually consists of a gravel-filled underdrain trench or a layer of crushed surfacing base course. The stone vegetation-free zone produces sheet flow, which is pretreated as it flows across the grass strip and is then captured by the storage reservoir, where it infiltrates into the subsoil or is discharged through the underdrain. This VRA is typically installed between the road surface and a ditch or other conveyance located downslope. While this approach shares many similarities to VRA 02 – Dispersion, its engineering design features allow it to be sited in more constrained areas and on steeper cross-slopes where dispersion would not be as viable.

Highway Runoff Manual

RC Schank

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

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Strecker,Aaron Poresky,Robert M. Roseen,Ronald S. Johnson,Jane Soule,Venkat Gummadi,Raina Dwivedi,Adam Questad,Neil Weinstein,Emily Ayers,Marie Venner,2015 TRB s National Cooperative Highway Research Program NCHRP Report 802
Volume Reduction of Highway Runoff in Urban Areas Guidance Manual explores practices for the reduction of stormwater volumes in urban highway environments The report outlines a five step process for the identification evaluation and design of solutions for runoff volume reduction based on site specific conditions The manual also includes a set of volume reduction approach fact sheets and a user guide for the Volume Performance Tool publisher s description **Measuring and Removing Dissolved Metals from Stormwater in Highly Urbanized Areas** Michael E. Barrett,Lynn Ellen Katz,Scott Michael Taylor,John Joseph Sansalone,Marty Stevenson,2014 *Measuring and Removing Dissolved Metals from Stormwater in Highly Urbanized Areas*

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