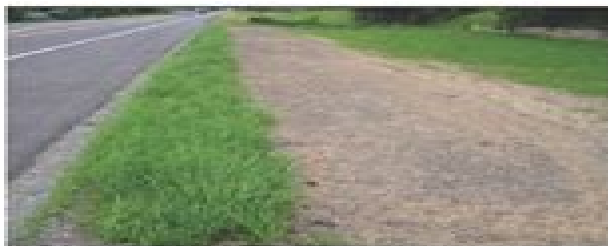


Media Filter Drain

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

RD Boyd



Highway Runoff Manual:

Detroit Motor Show ,1929 **Highway Runoff Manual** ,2001 **Washington State Highway Runoff Water Quality Research Implementation Manual: Water quality criteria** ,1985 **Washington State Highway Runoff Water Quality Research Implementation Manual: Basis of water quality criteria** ,1985 *Suggested Revisions to WSDOT Manuals for Implementing Washington State Highway Runoff Water Quality Research Results* ,1985

Constituents of Highway Runoff: Procedural manual for monitoring of highway runoff ,1981 Constituents of Highway Runoff Manish K. Gupta,R. W. Agnew,T. L. Meinholz,1981 **I-5, Toutle Park Road to Maytown, Cowlitz County, Lewis County, Thurston County** ,2003 *Report No. FHWA-RD.* United States. Federal Highway Administration. Offices of Research and Development,1981 *Volume Reduction of Highway Runoff in Urban Areas* Eric W. 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 **Water Quality Management of Highway Runoff** National Highway Institute (U.S.),United States. Federal Highway Administration,International Association for Continuing Education and Training,2006 Course was developed to reexamine the water control management of highway runoff and the desire to stay on the cutting edge of emerging technologies and new techniques in water quality management Guidance Manual for Monitoring Highway Runoff Water Quality ,2001 **U. S. Route 15 Improvement Project, S.R. 6015, Section G20 and G22 Tioga County, Pennsylvania and PIN 6008.22.123 Steuben County, New York, U.S. Route 15 Between PA Route 287 and Presho, New York** ,2002 *Central Susquehanna Valley Transportation Project, S.R. 0015, Section 088, Snyder, Union and Northumberland Counties* ,2003

SR 28 (Sunset Highway), Eastside Corridor Project ,2006 SR 167 Puyallup to SR 509, Cities of Puyallup, Fife, Edgewood, Milton, and Tacoma Pierce County ,2006 WA-16/Union Avenue Vicinity to WA-302 Vicinity of Tacoma Improvements ,2000 **Water-resources Investigations Report** Donald A. Sherwood,Phillip J. Zarriello,Robert F. Breault,Peter K. Weiskel,2002 **Potential Effects of Structural Controls and Street Sweeping on Stormwater Loads to the Lower Charles River, Massachusetts** Phillip J. Zarriello,Robert F. Breault,Peter K. Weiskel,2002 **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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