STORMWATER BMP UPDATE
UPDATED / NEW BMPS

- Chapter 9.1 Bioretention Systems (Revised 02/09)
- Chapter 9.2 Standard Constructed Wetlands ***UPDATED***
- Chapter 9.3 Standard for Dry Wells
- Chapter 9.4 Extended Detention Basins ***UPDATED***
- Chapter 9.5 Standard for Infiltration Basins
- Chapter 9.6 Standard for Manufactured Treatment Devices
- Chapter 9.7 Standard for Pervious Paving Systems
- Chapter 9.8 Standard for Rooftop Vegetated Cover (reserved)
- Chapter 9.9 Sand Filters ***UPDATED***
- Chapter 9.10 Vegetative Filter Strips ***UPDATED***
- Chapter 9.11 Wet Ponds ***UPDATED***
- Chapter 9.12 Grass Swales ***NEW***
- Chapter 9.13 Subsurface Gravel Wetlands ***NEW***

http://www.njstormwater.org/bmp_manual2.htm
BMPS TO BE UPDATED/DEVELOPED

- Bioretention Systems
- Dry Wells
- Infiltration Basins
- Pervious Paving
- Blue Roofs
- Green Roofs
- Cisterns
9.2 STANDARD CONSTRUCTED WETLANDS

Standard constructed wetlands are stormwater management systems designed to maximize the removal of pollutants from stormwater runoff. Flow is directed through an engineered, open marsh system where pollutants are removed through settling and vegetative uptake/filtration. The total suspended solids (TSS) removal rate is 90%.

**N.J.A.C. 7:8 Stormwater Management Rules - Design and Performance Standards**

<table>
<thead>
<tr>
<th>Nonstructural Strategy</th>
<th>Assist with #7</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water Quantity</td>
<td>When designed to receive runoff from all storm events (on-line)</td>
</tr>
<tr>
<td>Groundwater Recharge</td>
<td>No</td>
</tr>
<tr>
<td>Water Quality</td>
<td>90% TSS</td>
</tr>
</tbody>
</table>

**Water Quality Mechanisms and Corresponding Criteria**

**Setting**
- Minimum Length to Width Ratio: 1:1
- Sinuous Flow Pathway: Recommended
- Presence of a Permanent Pool: Required

**Vegetative Uptake and Filtration**
- Minimum Density of Vegetation: 85%
- Appropriate Species Selection: See Chapter 7: Landscaping
- Minimum Inflow Drainage Area
  - Pond Category: 25 acres
  - Marsh Category: 25 acres
  - Extended Detention: 10 acres

**Introduction**
- Illustration
- Function
- Brief Definition
- % TSS Removal

**Rule Compliance**
- Nonstructural Strategies
- Numerical Requirements

**Functionality**
- Summary of Mechanism Specific Design Criteria
- Additional Reference to Key Information as Needed
MANUFACTURED TREATMENT DEVICES

http://njstormwater.org/treatment.html

VERIFICATION APPENDIX

Introduction
- Manufacturer – FilteRite® Bioretention Systems, A Division of Americast Inc., 11352 Virginia Preakness Road, Ashland, VA 23005
- MTD - FilteRite®
- TSS Removal Rate – 80%
- Specialized bioretention filtration media (FilteRite proprietary blend)
- On-line installation with Terrafix2 pump to 250 gpm (New Jersey 10-year storm event)

Detailed Specification
- NJDEP sizing tables attached (Table A-1 and Table A-2)
- Maximum inflow drainage area
  - NJDEP sizing tables attached (Table A-1 and Table A-2) are for approximate initial sizing only and final sizing must be determined by the design engineer based on the maximum tested hydraulic loading rate, or MTRR of 140 in/hr.
  - Maximum inflow drainage area
    - <0.09 acres (based on New Jersey Water Quality Design Storm NIAQ 7-8, 5.5k(3)) and certain assumed site conditions (e.g. CN=0.95) for 4’x4’ unit (see Table A-1 and Table A-2 for larger units)

http://www.njcat.org/verification-process/technology-verification-database.html

State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Nonpoint Pollution Control Division of Water Quality

CHRIStY R. CHRISTIE
Governor

The Barn, Trenton, New Jersey 08625
609-292-5600 Fax: 609-777-5213
http://www.state.nj.us/dep/bnp/christie.htm

KIM GUADAGNO
Deputy Governor

May 27, 2014

Chris French
FilteRite® Bioretention Systems,
A Division of Americast, Inc.,
11352 Virginia Preakness Road,
Ashland, Virginia 23005

Re: MTD Lab Certification for the FilteRite Bioretention System by Americast, Inc.

TSS Removal Rate: 80%

Dear Mr. French:

The Bureau of Nonpoint Pollution Control has evaluated the FilteRite® Bioretention System and is pleased to report that the system meets all requirements of New Jersey Stormwater Management Manual.
FIELD MANUAL

- Cover Page and BMP Overview
- Basic Design Information/Visual Aid for BMP Inspection
- Inspection Checklist/Maintenance Actions
- Preventative and Corrective Maintenance Records
STORMWATER TRAINING

Stormwater Training
This page contains presentations, videos, and links to reference material that will aid in the implementation of a Stormwater Management Program.

Maintenance of Stormwater Management Measures
- Narrated Video Part 1
- Narrated Video Part 2
- Powerpoint Parts 1 & 2 (with notes)

NJDEP Stormwater Employee led training through Rutgers
- Municipal Employee Training Video

US EPA
- Stormwater Training Courses and Workshops Website
- Green Infrastructure Webcast and Training

www.njstormwater.org/training.htm