

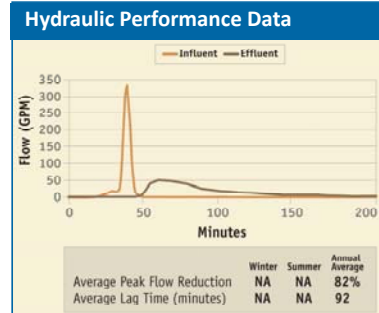
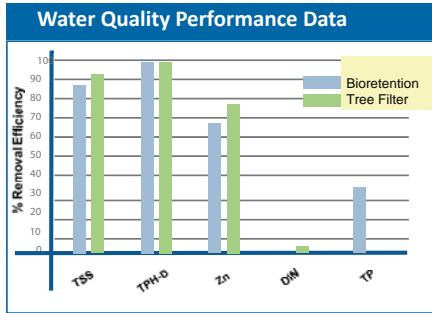
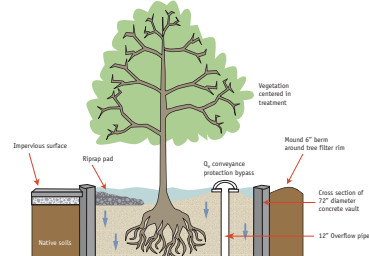
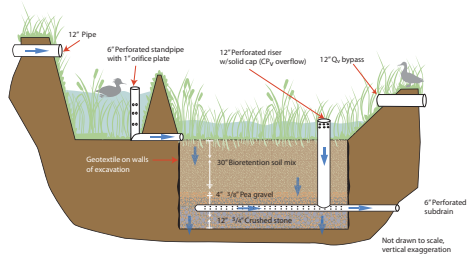
# Overview of Green Infrastructure Techniques



University of New Hampshire Stormwater Center

2015

# Bioretention System Designs & Data



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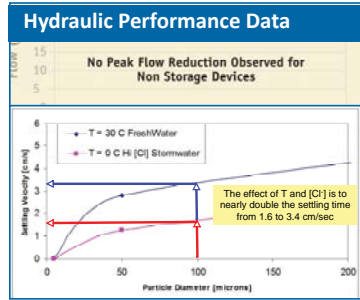
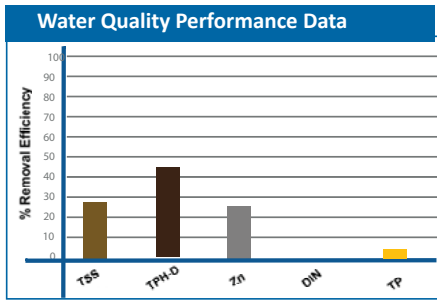
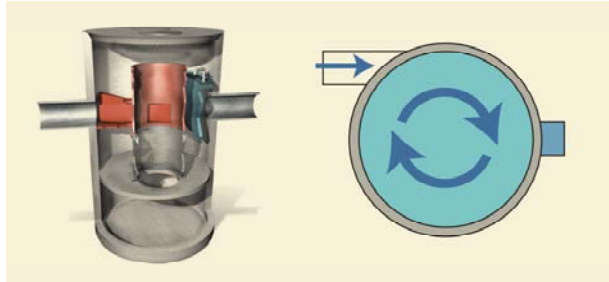
# Bioretention Report Card

category	uop	target	"grade"
hydrologic	flow alteration	divert flow	✓
	volume reduction		✓
physical	sedimentation	sediment	✓
	enhanced sedimentation	sediment	
	filtration	sediment	✓
biological	microbial	nitrogen	✓—
	vegetative	nitrogen phosphorus	✓
chemical	sorption	phosphorus	✓—

# Tree Filter Report Card

category	uop	target	"grade"
hydrologic	flow alteration	divert flow	✓
	volume reduction		✓
physical	sedimentation	sediment	✓
	enhanced sedimentation	sediment	
	filtration	sediment	✓
biological	microbial	nitrogen	✓—
	vegetative	nitrogen phosphorus	✓
chemical	sorption	phosphorus	✓—

# Hydrodynamic Separators Design & Data



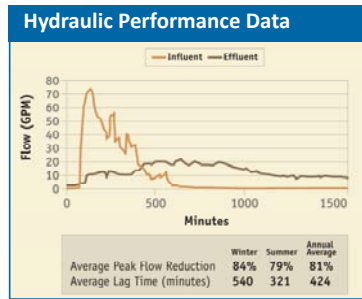
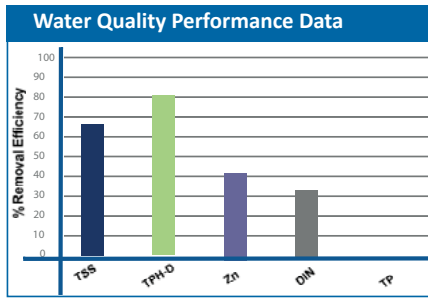
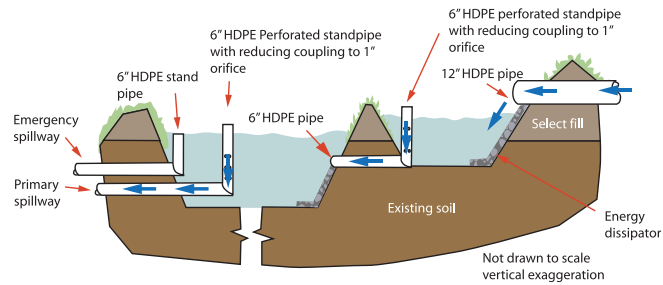
# Hydrodynamic Separator Report Card

category	uop	target	"grade"
hydrologic	flow alteration	divert flow	✓—
	volume reduction		
physical	sedimentation	sediment	
	enhanced sedimentation	sediment	✓
	filtration	sediment	
biological	microbial	nitrogen	
	vegetative	nitrogen phosphorus	
chemical	sorption	phosphorus	

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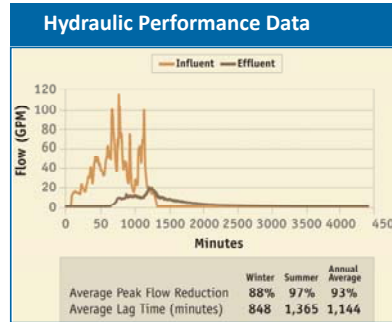
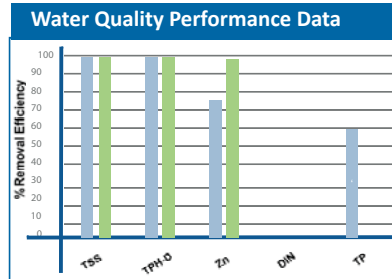
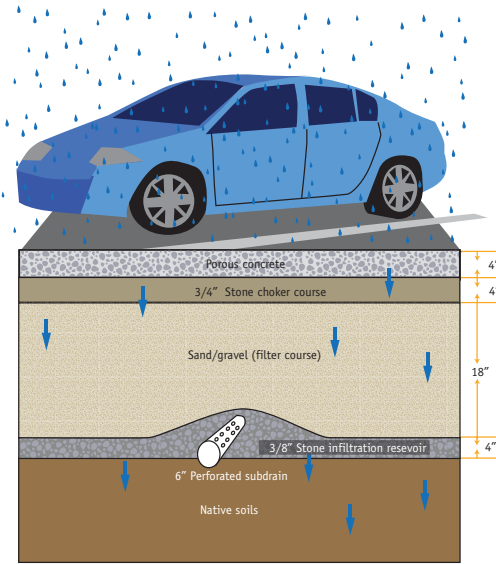
# Retention Pond Design & Data



# Retention Pond Report Card

category	uop	target	"grade"
hydrologic	flow alteration	divert flow	✓
	volume reduction		
physical	sedimentation	sediment	✓
	enhanced sedimentation	sediment	
	filtration	sediment	
biological	microbial	nitrogen	
	vegetative	nitrogen phosphorus	✓
chemical	sorption	phosphorus	

# Porous Pavement Design & Data

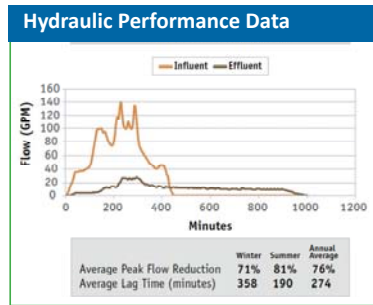
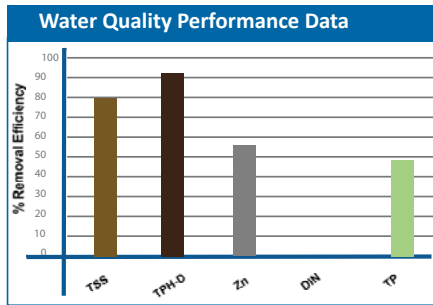
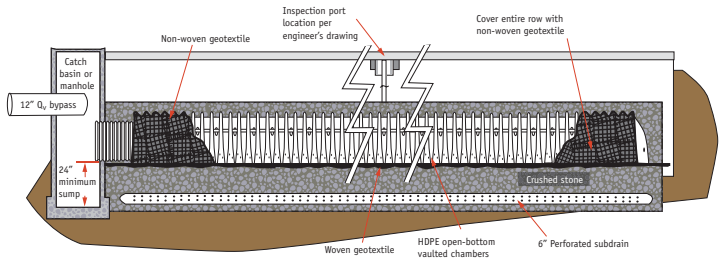


# Porous Pavement Report Card

category	uop	target	"grade"
hydrologic	flow alteration	divert flow	✓+
	volume reduction		✓+
physical	sedimentation	sediment	✓
	enhanced sedimentation	sediment	
	filtration	sediment	✓+
biological	microbial	nitrogen	
	vegetative	nitrogen phosphorus	
chemical	sorption	phosphorus	✓+



# Stormtech Isolator Row Design & Data



# Stormtech Report Card

category	uop	target	"grade"
hydrologic	flow alteration	divert flow	✓
	volume reduction		✓
physical	sedimentation	sediment	✓
	enhanced sedimentation	sediment	
	filtration	sediment	✓
biological	microbial	nitrogen	
	vegetative	nitrogen phosphorus	
chemical	sorption	phosphorus	✓

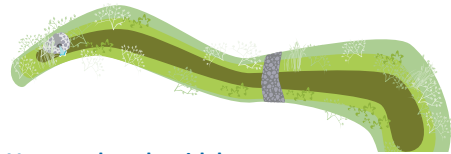
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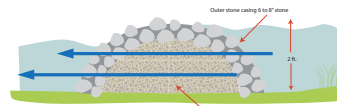
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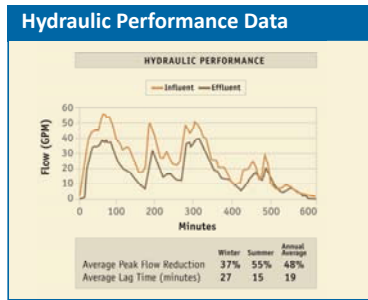
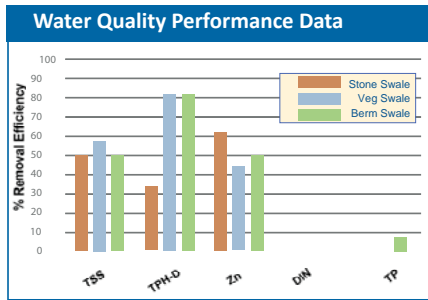
# Swales Design & Data



Vegetated swale with berm



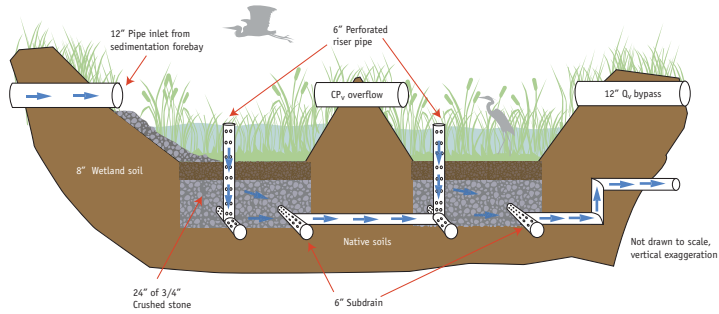
Berm cross-section



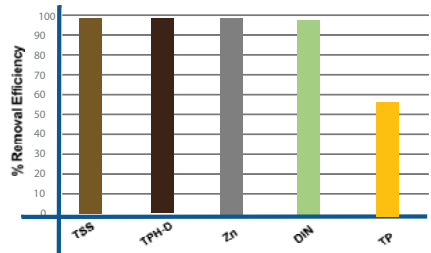
# Swale Report Card (Berm)

category	uop	target	"grade"
hydrologic	flow alteration	divert flow	✓
	volume reduction		
physical	sedimentation	sediment	✓
	enhanced sedimentation	sediment	
	filtration	sediment	
biological	microbial	nitrogen	
	vegetative	nitrogen phosphorus	✓—
chemical	sorption	phosphorus	✓—

# Gravel Wetland Design & Data



**Water Quality Performance Data**



**Hydraulic Performance Data**



# Gravel Wetland Report Card

category	uop	target	"grade"
hydrologic	flow alteration	divert flow	✓
	volume reduction		
physical	sedimentation	sediment	✓
	enhanced sedimentation	sediment	
	filtration	sediment	✓
biological	microbial	nitrogen	✓
	vegetative	nitrogen phosphorus	✓+
chemical	sorption	phosphorus	✓+

