

Bioretention Area Inspection and Maintenance Checklist

Green Infrastructure Site Location and Address: St. Casimir Green Infrastructure Project, 8223 Sowinski Ave, 44103		
Date and Time: 07/23/2019 12:34 PM	Weather Conditions: ☀ Sunny	Date of Last Inspection:
Inspector and Title: Chris Hartman, CPESC, CESSWI, CPSWQ, Stormwater Technical Specialist, Crystal Davis, Watershed Programs Specialist, Spencer Nash, Watershed Programs Intern		
Site Plan or As-Built Plan Available: Yes		


Inspection Item	Images
DEWATERING	
<p>Standing water is present after 24 hours. If yes, describe sheen, color, or smell.</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA</p>	
<p>Action needed.</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA</p>	
<p>Comments: No additional comments.</p>	
INLETS	
<p>Inlets are in poor structural condition.</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA</p>	
<p>Sediment has accumulated and/or is blocking the inlets.</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA</p>	
<p>Erosion is occurring around the inlets.</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA</p>	
<p>Action needed.</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA</p>	
<p>No additional comments.</p>	
VEGETATION	
<p>Vegetation is wilting, discolored, or dying due to disease or stress.</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	
<p>Vegetation needs to be controlled through mowing or manual removal.</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	
<p>Action needed.</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	
<p>Additional comments.</p> <p>No planting plan for bioretention cells. No action needed.</p>	
BIORETENTION MAIN INFILTRATION AREA	
<p>Trash and debris have accumulated.</p> <p><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA</p>	

Photo 1

Sediment has accumulated at the surface. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
Topmost layer is caked or crusted over with sediment. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
Erosion is evident. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
Mulch is compacted. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
Sinkholes or animal borrows are present. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
Action needed. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
No additional comments.

SIDE SLOPES AND EMBANKMENT

Erosion is evident. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
Sinkholes or animal borrows are present. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
Action needed. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
No additional comments.

OUTLETS AND OVERFLOW STRUCTURE (i.e., catch basin)

Outlets or overflow structures in poor structural condition. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
Sediment, trash or debris is blocking the outlets or overflow structure. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
Erosion is occurring around the outlets or overflow structure. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Height from surface of practice to top of overflow structure is insufficient to allow for ponding during rain events. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
Action needed. 1. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA

Note: Sediment accumulation by outlet.
Check plans to see height of outlet structure
(Refer to photo 2).

SUMMARY

Please address the following items:

1. Clear debris from the outlet structure (Refer to photo 2). Ensure the outlet structure on western basin is at the correct elevation to cause inflow to pond and infiltrate.
2. Trim away the vegetation that is covering the signage near the rear bioretention cell (Refer to photo 3 for location) (Vegetation that has grown on the fence).




Photo 2.



Photo 3

Permeable Pavement Inspection and Maintenance Checklist

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Inspector and Title: Chris Hartman, CPESC, CESSWI, CPSWQ, Stormwater Technical Specialist, Crystal Davis, Watershed Programs Specialist, Spencer Nash, Watershed Programs Intern		
Site Plan or As-Built Plan Available: Yes		

Inspection Item	Images	
PAVEMENT TRANSITION AREA		
Non-permeable transition area at pavement edges is unstable/deteriorating <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA	Photo 1. 	
Action needed. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA		
Comments: There is some slight heaving in the northeast portion of the permeable pavers.		
DEWATERING		
Standing water is present after 24 hours. If yes, describe sheen, color, or smell. Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA		
Action needed. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA		
Comments: No additional comments.		
PAVEMENT SURFACE AND JOINTS		
Sediment has accumulated on pavement surface. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA	Photo 1 ----- -----	
Trash and debris have accumulated on pavement surface or around curbing. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA		
Pavement has deteriorated, cracked, settled, or raveled. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA		
Sediment has accumulated in the joints of PICP. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA		
Vegetation is growing in the joints of PICP. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA		
Gravel is insufficient in the joints of PICP. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA		
Action needed. <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA		
Comments: Applicant needs to conduct routine maintenance on the paver system. Remove the sediment that has accumulated and dispose of properly.		

Wet weather inspection to be conducted by NEORS	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA	
SUMMARY Please address the following items: 1. Applicant needs to conduct routine maintenance on the paver system. Remove the sediment that has accumulated and dispose of properly (Refer to photo 1).	