

November 7, 2019

Mr. Timothy Tramble
Executive Director
Burten, Bell, Carr Development Inc
7201 Kinsman Rd #104, Cleveland, OH 44104
Cleveland, OH 44104

Re: Annual Inspection with Concerns Project Title: Colfax Green Links

Dear Mr. Tramble:

The Northeast Ohio Regional Sewer District (District) supports the strategic implementation and long-term maintenance of green infrastructure that protects, preserves, enhances, and restores natural hydrologic function.

The attached Inspection Report provides review and recommendations of the above project in response to the Northeast Ohio Regional Sewer District's Small Scale Stormwater Demonstration Projects (S3DP) Grant or Green Infrastructure Grant (GIG) Program Agreement. As a grantee or sub-grantee, you are responsible for the long-term operation and maintenance of the project. District staff recently completed an annual inspection of your project, and as a result operation and maintenance concerns have been identified that need attention, please see attached inspection report for details.

Once the action steps have been completed, please provide email confirmation (including pictures) to indicate that maintenance concerns have been addressed. Email for confirmation should be sent to Crystal Davis at DavisC@neorsd.org.

Please contact me, Crystal Davis, at 216-881-6600 ext. 6447 with any questions.

Sincerely,

Crystal Davis

Watershed Programs Specialist

davisc@neorsd.org

Enclosure

Bioretention Area Inspection and Maintenance Checklist

Green Infrastructure Site Location and Address: Colfax Ave & East 75 th Street and & 541 Kinsman Road, Cleveland, OH, 44104				
Date and Time: 10:35am 10/31/2019 Weather Conditions: Rain Date of Last Inspection: N/A				
Inspector and Title: Crystal Davis, Watershed Programs Specialist, Spencer Nash, Watershed Programs Intern				
Site Plan or As-Built Plan Available: YES				

Inspection Item	Images
DEWATERING	images
Standing water is present after 24 hours. If yes, describe sheen, color, or smell. Yes No NA	
Action needed. ☐ Yes ☑ No ☐ NA Comments: No additional comments	
INLETS Inlets are in poor structural condition. ☐ Yes ✓ No ☐ NA Sediment has accumulated and/or is blocking the inlets. ✓ Yes ☐ No ☐ NA Erosion is occurring around the inlets. ☐ Yes ✓ No ☐ NA Action needed.	Photo 1.
Yes □ No □ NA Comments: Both trench drains located on the right side of	
East 75 th Street, facing North, are clogged with sediment and debris. Stormwater is bypassing the drains. Drains will need to be cleared (Refer to photo 1).	
VEGETATION Vegetation is wilting discolared and dring due to discose on	
Vegetation is wilting, discolored, or dying due to disease or stress. ☐ Yes ✓ No ☐ NA Vegetation needs to be controlled through mowing or manual removal. ☐ Yes ✓ No ☐ NA Action needed. ☐ Yes ✓ No ☐ NA Comments: No additional comments.	
BIORETENTION MAIN INFILTRATION AREA	
Trash and debris have accumulated. ✓ Yes □No □NA Sediment has accumulated at the surface. □ Yes ✓ No □NA Topmost layer is caked or crusted over with sediment. □ Yes ✓ No □NA Erosion is evident. □ Yes ✓ No □NA Mulch is compacted. □ Yes ✓ No □NA	Photo 2.
Sinkholes or animal borrows are present. ☐ Yes ✓ No ☐ NA	

Action needed.	
Action needed. ✓ Yes □ No □ NA	
Comments: Trash and debris has accumulated in the cell	
(Refer to photo 2).	
SIDE SLOPES AND EMBANKMENT	
Erosion is evident.	
□Yes No □ NA	
Sinkholes or animal borrows are present.	
☐ Yes ✓ No ☐ NA	
Action needed.	
□Yes ✓ No □ NA	
No additional comments.	
OUTLETS AND OVERFLOW STRUCTURE (i.e.,	
catch basin)	
Outlets or overflow structures in poor structural condition.	
Sediment, trash or debris is blocking the outlets or	
overflow structure.	Photo 3.
□Yes ✓ No □ NA	
Erosion is occurring around the outlets or overflow	
structure.	
☐ Yes ✓ No ☐ NA	
Height from surface of practice to top of overflow structure is insufficient to allow for ponding during rain events.	
S insufficient to allow for ponding during rain events. ☐ Yes No NA	
Action needed.	
□Yes ✓ No □ NA	
Comments: No additional comments.	
Comments. 130 additional comments.	
Summary:	
1. Both trench drains need to be cleared of trash and d	
	trash. Remove trash and dispose of properly (Refer to photo 2).
	ted on the right side of East 75 th is too high. This creates a small rly. Reduce stone height and spread out stone (Refer to photo 3).
uani and does not anow water to enter the cen prope	11y. Reduce stone neight and spread out stone (Refer to photo 5).

Bioretention Area Inspection and Maintenance Checklist

<u>.</u>	ction and Maintenance Checkinst
	& East 75 th street and & 541 Kinsman Road, Cleveland, OH, 44104
Date and Time: 10:35am 10/31/2019 Weather Condition	ons: Rain Date of Last Inspection: N/A Stormwater Technical Specialist, Crystal Davis, Watershed Programs
Specialist, Spencer Nash, Watershed Programs Intern	Stormwater reclinical specialist, crystal Davis, watershed Programs
Site Plan or As-Built Plan Available: YES	
Inspection Item	Images
DEWATERING	
Standing vistorie appears of an 24 hours. If year describe	
Standing water is present after 24 hours. If yes, describe sheen, color, or smell.	
□ Yes ✓ No □ NA	
Action needed.	
□ Yes ✓ No □ NA	
Comments: No additional comments.	
INLETS	
Inlets are in poor structural condition.	
□ Yes ☑ No □ NA	Photo 1.
Sediment has accumulated and/or is blocking the inlets.	
□Yes ✓ No □ NA	
Erosion is occurring around the inlets.	
□Yes ✓ No □ NA	
Action needed.	
☐Yes ✓ No ☐ NA Comments: No additional comments.	
Comments: No additional comments.	
VEGETATION	
Vegetation is wilting, discolored, or dying due to disease or	
stress. □ Yes ✓ No □ NA	
Vegetation needs to be controlled through mowing or	
manual removal.	
☐ Yes ☑ No ☐ NA	
Action needed.	
☐ Yes ✓ No ☐ NA	
C 4 N 11'2' 1	
Comments: No additional comments.	
BIORETENTION MAIN	
INFILTRATION AREA	
Trash and debris have accumulated.	
☐ Yes ✓ No ☐ NA Sediment has accumulated at the surface.	
Yes ✓ No □ NA	
Topmost layer is caked or crusted over with sediment.	1
1 3	

☐ Yes ✓ No ☐ NA	
Erosion is evident.	
☐ Yes ✓ No ☐ NA	
Mulch is compacted.	
□ Yes 🗸 No □ NA	
Sinkholes or animal borrows are present.	
□ Yes 🗸 No □ NA	
Action needed. □ Yes ☑No □ NA	
Comments: No additional comments.	
SIDE SLOPES AND EMBANKMENT	
Erosion is evident.	
□Yes ✓No □NA	
Sinkholes or animal borrows are present.	
☐ Yes ☑ No ☐ NA	
Action needed.	
□Yes ✓ No □ NA	
Comments: No additional comments.	
OUTLETS AND OVERFLOW	
STRUCTURE (i.e., catch basin)	
Outlets or overflow structures in poor structural condition. ☐ Yes ✓ No ☐ NA	
Sediment, trash or debris is blocking the outlets or	
overflow structure.	
☐ Yes ☑ No ☐ NA	
Erosion is occurring around the outlets or overflow	
structure.	
☐ Yes ✓ No ☐ NA	
Height from surface of practice to top of overflow structure	
is insufficient to allow for ponding during rain events.	
□ Yes ✓ No □ NA	
Action needed.	
□Yes ✓ No □ NA	
Comments: No additional comments.	
Summary:	
1. Cell is in good condition and is ponding water correctly.	

Bioretention Area Inspection and Maintenance Checklist

Green Infrastructure Site Location and Address: 7531 Kinsn	
Date and Time: 10:40am 10/31/2019 Weather Condition	• •
Inspector and Title: Crystal Davis, Watershed Programs Speci	ialist, Spencer Nash, Watershed Programs Intern
Site Plan or As-Built Plan Available: YES	
Inspection Item	Images
DEWATERING	
DEWITERING	
Standing water is present after 24 hours. If yes, describe	
sheen, color, or smell.	
□ Yes 🔽 No □ NA	
Action needed.	
□ Yes 🗹 No □ NA	
Comments: No additional comments.	
INLETS	
T(EET)	
Inlets are in poor structural condition. ☐ Yes ✓ No ☐ NA	
□ Yes ☑ No □ NA	(一) (1) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4
Sediment has accumulated and/or is blocking the inlets.	The state of the s
□Yes No □ NA	
lies V No Lina	
Erosion is occurring around the inlets.	Photo 1.
□Yes ✓ No □ NA	
Action needed.	
_	
✓ Yes □No □ NA	
Comments: The District needs clarification	
on how stormwater is getting to the cell (Refer to photo 2). If the inlet goes from	
the roof to main cell area, the inlet needs to	
be clear of debris (Refer to photo 1).	
20 1300 2).	
VEGETATION	
Vegetation is wilting, discolored, or dying due to disease or	
stress.	
□ Yes ✓ No □ NA	
Vegetation needs to be controlled through mowing or	
manual removal.	
☐ Yes ✓ No ☐ NA	
Action needed.	
☐ Yes ✓ No ☐ NA	THE PROPERTY OF THE PROPERTY O
G 112 1	Photo 2.
Comments: No additional comments.	
DIADETENTIAN MAIN	
BIORETENTION MAIN INFILTRATION AREA	
Trash and debris have accumulated.	
□Yes No □ NA	
Sediment has accumulated at the surface.	
☐ Yes ✓ No ☐ NA Topmost layer is caked or crusted over with sediment.	
□ Yes ✓ No □ NA	

Erosion is evident.