UNIVERSITY OF MINNESOTA

Stormwater Treatment: Assessment and Maintenance

Field Data Sheet for Level 1 Assessment: Visual Inspection
Underground Sedimentation Devices

Inspector's Name(s):_____
Date of Inspection:_____
Location of the device pond:_____
Address or Intersection:_____
Latititude, Longitude:_____
Date the device began operation: _____
Device dimensions. Depth (ft.): _____
Area (ft. x ft.) _____
Time since last rainfall (hr): _____
Quantity of last rainfall (in): _____
Rainfall Measurement Location: _____

Site Sketch (include inlets, outlets, north arrow, etc.)

Based on visual assessment of the site, answer the following questions and make photographic or video-graphic documentation:

1. Has visual inspection been conducted at this location before? □ Yes □ No □ I don't know
   1. a) If yes, enter date:_____
   1. b) Based on previous visual inspections, have any corrective actions been taken?
   □ Yes □ No □ I don't know (If yes, describe actions in comments box)

2. Has it rained within the last 48 hours at this location? □ Yes □ No □ I don't know

3. Access
   3. a) Access to the underground sedimentation device is:
   □ Clear □ Partially obstructed □ Mostly obstructed □ Inaccessible
   3. b) If obstructed, the obstruction is (choose and provide comments) :
   □ temporary **and** □ no action needed **or** □ action needed
   □ permanent **and** □ before or during installation **or** □ new since installation
   3. c) Access to the upstream and downstream drainage is:
   □ Clear □ Partially obstructed □ Mostly obstructed □ Inaccessible
   3. d) If obstructed, the obstruction is (choose and provide comments) :
   □ temporary **and** □ no action needed **or** □ action needed
   □ permanent **and** □ before or during installation **or** □ new since installation

Comments

4. Inlet Structures

4. a) How many inlet structures are present? □ 0 □ 1 □ 2 □ 3 □ 4 □ 5 □ > 5

4. b) Are any of the inlet structures clogged? (If yes, mark location on site sketch above and fill in boxes below with items causing clogging (ie. debris, sediment, vegetation, etc.)

	Inlet #:	Inlet #:	Inlet #:	Inlet #:	Inlet #:
Partially					
Completely					
Not Applicable					

4. c) Are any of the inlet structures askew or misaligned from the original design or otherwise in need of maintenance? (if yes, write in reason: frost heave, vandalism, unknown, etc.)

	Inlet #:	Inlet #:	Inlet #:	Inlet #:	Inlet #:
Reason					

5. Is a significant amount of water entering the underground device? □ Yes □ No □ I don't know

5. a) If yes, what is the source?

□ Recent rainfall/runoff event
□ Leaking pipes or manholes
□ Lawn irrigation
□ Fire hydrant
□ Other, specify_____

6. Is there evidence of illicit storm sewer discharges?

□ Yes □ No □ I don't know (if yes, describe in comment box)

7. Structure

7. a) Are there excessive amounts of solids, debris, vegetation, or other objects that could be hindering performance or be re-suspended and exit the system during subsequent runoff events?

□ Yes □ No □ I don't know

7. b) Does the structure have any:

□ Significant cracks
□ Leaks
□ Joint failures
□ Structural instability
□ Corrosion
□ Other signs of damage or components requiring attention (describe in comment box)

Comments

8. Are any outlet structures clogged? □ No □ Partially □ Completely □ NA

8. a) If yes, specify the clogging material (i.e. debris, sediment, vegetation, etc.) in the box below.

	Outlet #:	Outlet #:	Outlet #:
Material			
Partial or Comp.			

8. b) Are any of the outlet structures askew or misaligned from the original design or otherwise in need of maintenance? (if yes, write in reason: frost heave, vandalism, unknown, etc.)

	Outlet #:	Outlet #:	Outlet #:
Reason			

9. Is there any evidence of any of the following downstream of the outlet structure?

□ Sediment deposition □ Erosion or channelization □ Other □ No

9. a) If sediment deposition is evident, what is the source?

□ Erosion or channelization inside the filtration practice
□ Erosion or channelization outside the filtration practice
□ Construction site erosion
□ Other, Specify_____
□ Unknown

10. Inspector's Recommendations. When is maintenance needed?

□ Before the next rainfall
□ Before the next rainy season
□ Within a year or two
□ No sign that any is required

Comments

12. Summarize the results of this inspection and write any other observations in the box below.

Summary and other observations