

Landscape and Open-Space Maintenance

Issue Date: August 2018



SYNTHETIC TURF MANAGEMENT

SCM-PP/GH-23



Description

Pollutants from turf management, painting, rubberized pellet infill management, and equipment maintenance can contaminate runoff. Use of control measures can help minimize the potential introduction of pollutants into the stormwater system and local waterways.

NYC MS4 SPDES Permit Requirement(s)	IV.A Public Outreach/Education IV.G Pollution Prevention/Good Housekeeping For Municipal Operations IV.H Industrial/Commercial Sources
KEY SELECTION CRITERIA	
Targeted Activities	<ul style="list-style-type: none"> Artificial turf painting and maintenance Management of infill material
Performance Goals	<ul style="list-style-type: none"> Minimize exposure of paint & infill material Minimize paint and infill in runoff
Most Effective Controls <small>(more detail on page 2)</small>	<ul style="list-style-type: none"> Store paint/infill material in closed containers under cover where feasible Minimize infill in runoff by keeping infill materials on field & avoid using water to wash field
RELATED CONTROL MEASURES AND REGULATIONS	
Related SCMs	<ul style="list-style-type: none"> SCM-PP/GH-6 SCM-PP/GH-19 SCM-PP/GH-26
Other Regulatory Requirements*	Potentially applicable regulations included in the referenced SCMs.

EFFECTIVENESS FOR TARGETED POLLUTANTS / IMPAIRMENTS

✓	Floatables
	Sediments
	Nitrogen
	Phosphorus
	Pathogens
	Oxygen Demand
	PCBs
✓	Metals
✓	Petroleum Products/PAHs

✓✓ = Good ✓ = Fair = Poor

CONTROL STRATEGIES

✓	Cover/Contain
✓	Clean Up
✓	Reduce/Minimize
✓	Product Substitutions
	Manage Runoff
	Capture/Treat/Dispose

✓ = Yes

*Note: RCNY: Rules of the City of New York; NYCRR: New York Codes, Rules and Regulations; CFR: Code of Federal Regulations

Control Strategies/Suggested Practices

COVER/CONTAIN

- Store paint and infill material in a covered area, where feasible, and in tightly sealed containers.
- Provide secondary containment for chemical storage areas.
- Provide temporary cover for exposed soil areas during turf maintenance.

CLEAN UP

- Sweep in areas around playing field to keep infill material on the field
- Inspect chemical storage containers frequently for leaks or spills.
- Groom the field once a month during season to distribute infill material evenly.
- Collect trash and debris frequently and dispose of properly.

REDUCE/MINIMIZE

- Use the minimum quantity of paint necessary to achieve the desired results.
- Do not use water to wash or cool down the playing field.

PRODUCT SUBSTITUTION

- Substitute rubber pellets for organic infill materials.
- Use water-based paints & those listed in the USEPA's Design for the Environment (DfE) labeled Products. Do not use aerosol paint.
- Use paint removers that are formulated specifically for the type of paint and turf.

MANAGE RUNOFF

N/A

CAPTURE/TREAT/DISPOSE

N/A

References

- 1) NYSDEC, *Urban/Stormwater Runoff Management Practices Catalogue for Nonpoint Source Pollution Prevention in New York State, February 2002*
- 2) Western New York Stormwater Coalition, Erie County Department of Environment and Planning Division of Environmental Compliance Services, *Pollution Prevention/Good Housekeeping for Municipal Operations: A Guidance Document of Best Management Practices and Inspection Checklist, April 2006*